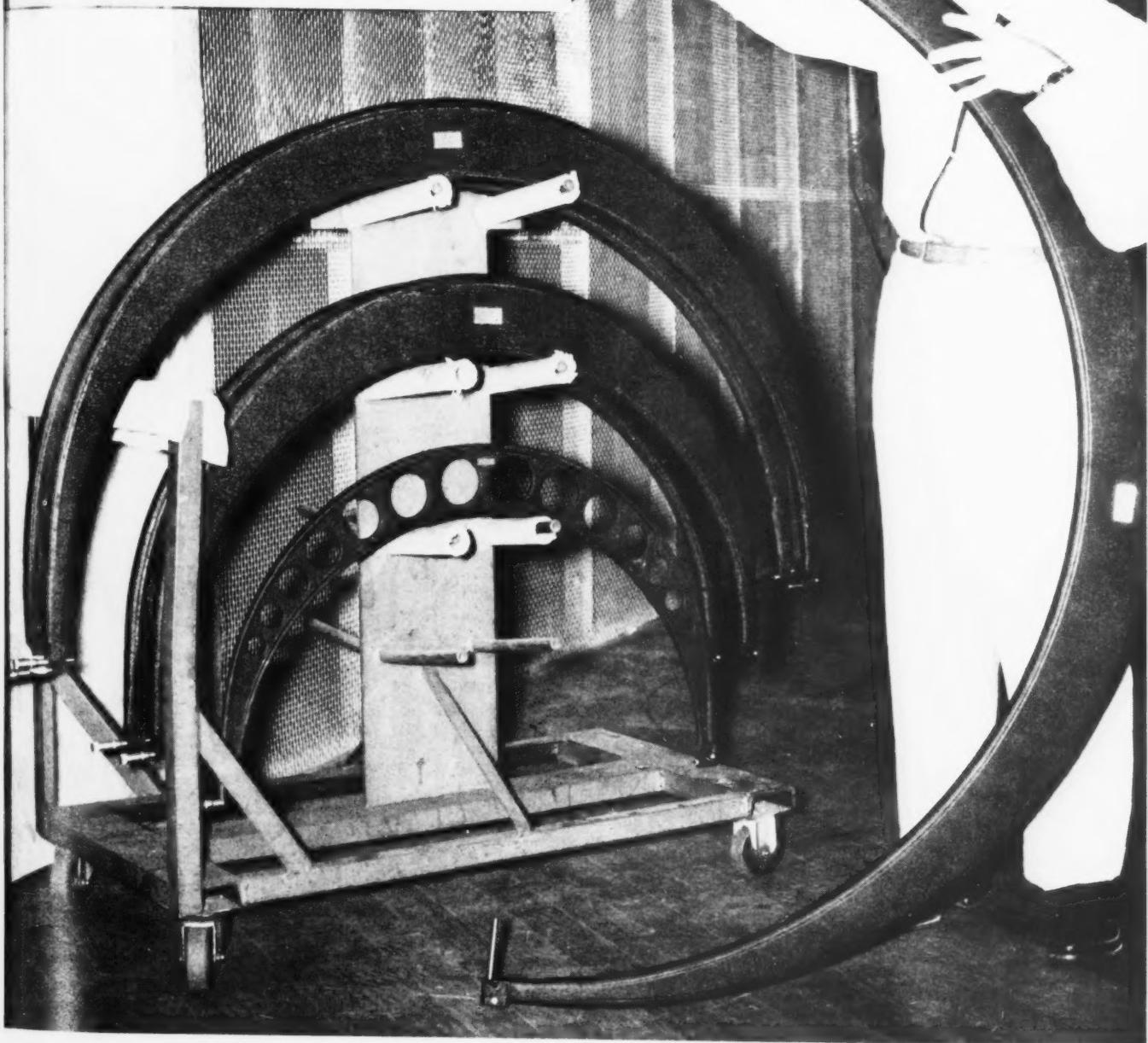


JULY • 1960



THE MICROMETER—
SYMBOL OF PRECISION

Page 9



Have you made the right moves to get the most from your telephone system?

Our free service can give
you the answer

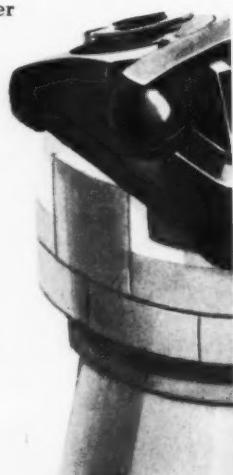
Has your telephone system kept pace with your business? Does it utilize the fastest, most efficient equipment? Can customers reach you promptly? Perhaps your business has outgrown its telephone facilities without your realizing it.

An inadequate telephone system can cost you money. Important calls may be delayed and your business hampered by telephone service not geared to today's needs.

Without obligation to you, one of our salaried communications specialists will review and evaluate your present system. Then, if changes seem advisable, he'll recommend the exact facilities to serve you best — telephone service tailored to your present needs with room for further expansion.

*Just call our business
office for this valuable
free assistance.*

The Southern New England *Telephone* Company



CONNECTICUT INDUSTRY

JULY • 1960

VOLUME 38 NUMBER 7



THIS MONTH'S COVER photo shows E. John Gregory, president and general manager of J. T. Slocomb Co., South Glastonbury, demonstrating a five foot micrometer. Large, crescent-shaped precision tool is made in larger sizes on order and is a Slocomb specialty featuring Rigitube construction for lighter weight and complete accuracy.

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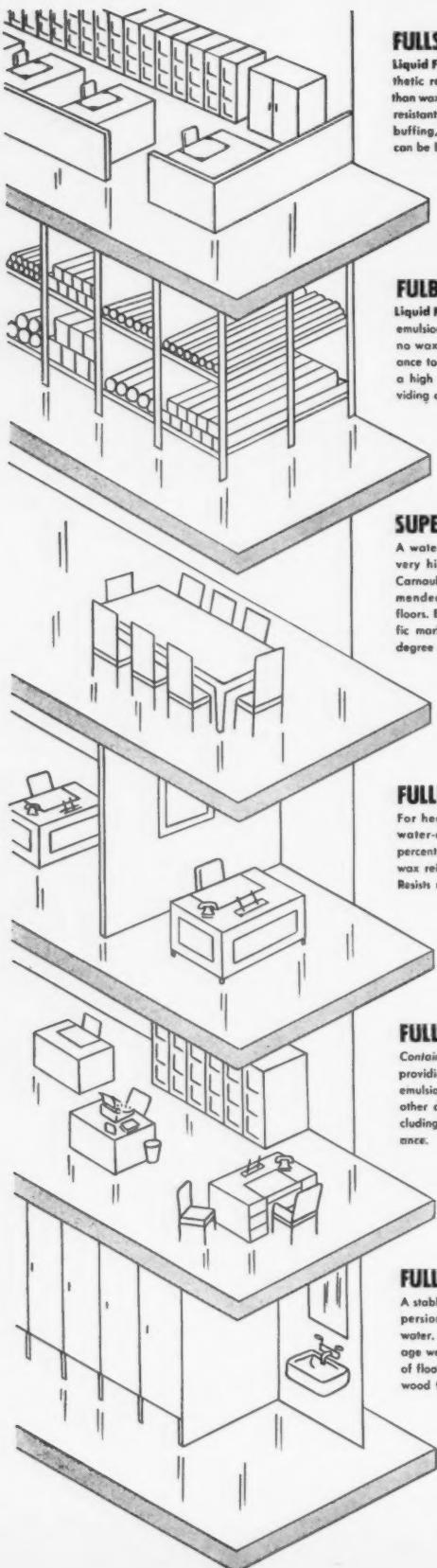
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Liquid Floor Finish — a heavy-duty emulsion resin finish that contains no wax. Provides excellent resistance to "traffic marking". Dries to a high gloss without buffing, providing a tough transparent film.

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FULLDUTY

For heavy-duty traffic areas. A water-emulsion wax with a high percentage of solids — Carnauba wax reinforced by synthetic resins. Resists marking. Dries to a gloss.

FULLLUSTRE

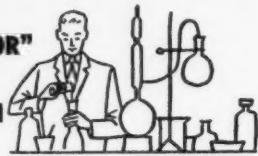
Contains "Ludox", a colloidal silica providing slip-resistance. This water-emulsion wax also maintains the other desirable wax properties including durability and water resistance.

FULLTHRIFT

A stable, free-flowing colloidal dispersion of waxes and resins in water. An economy wax for average wear. Safe to use on all types of floors including properly sealed wood floors.

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**MADE TO
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FULLER BRUSH
RESEARCH**



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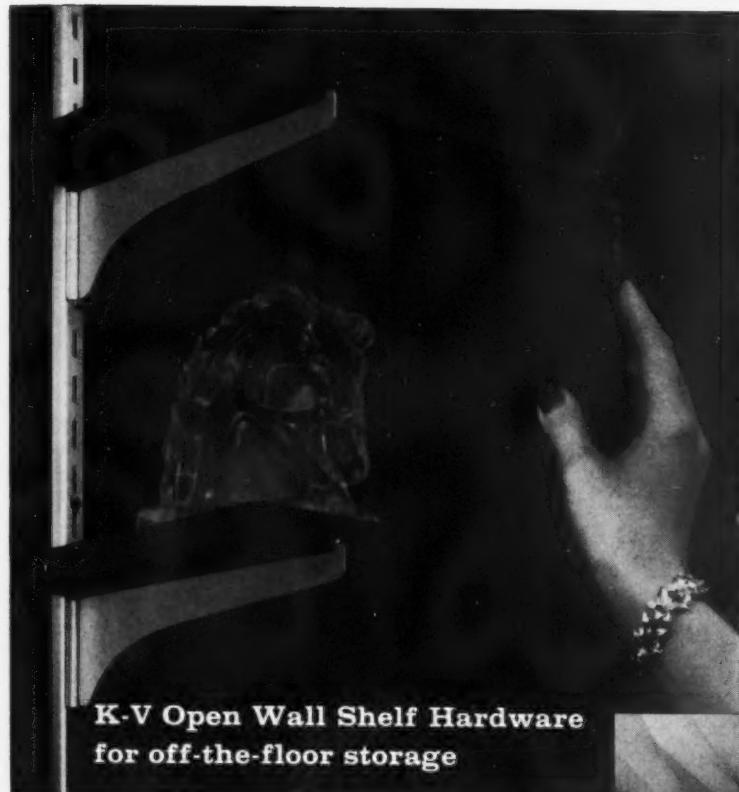
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manufacturing costs
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K-V Drawer Slides
never bind, never sag



K-V
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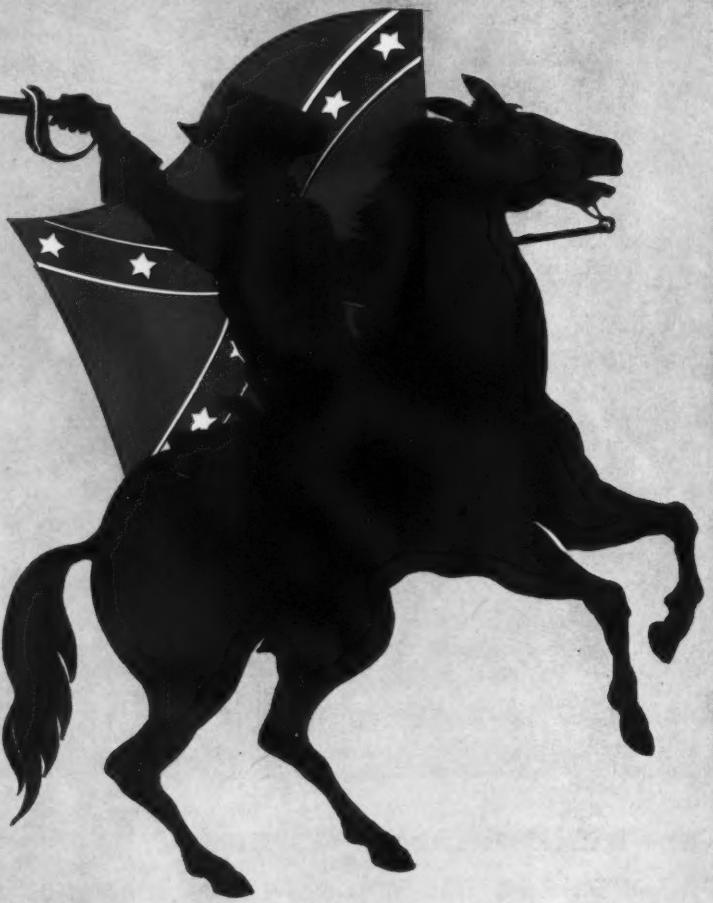
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Many Southerners would deny that General Forrest spoke thus quaintly in explaining his record of Confederate victories. Be that as it may, the words give vivid expression to the aim and accomplishment of



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Diagnosis And Remedy

♦ WE have just celebrated for the 184th time our Declaration of Independence from the tyranny of dictatorship. In our first spirited celebration and in many that followed, we solemnly declared our belief that the individual should be a free agent with full responsibility to choose between right and wrong action.

But what was the spirit of our Independence Day celebration this year—the first in the decade of the Sixties during which the fate of American freedom is likely to be decided? Was there widespread evidence this year or in recent years that we, who have enjoyed the material and spiritual bounties of this concept of individual freedom, are still disposed to honor its birthday or the men who sired it?

Except for a few isolated symbols in the forms of a Fourth of July address here and there at small community celebrations, community and recreation resort fireworks and a few flag-waving speeches by candidates for political office, there was little evidence this year and for many previous years that we are still dedicated enough to the freedom concept either to honor its birthday or to perpetuate its meaning in the minds of youth by dignified celebration. Instead, Independence Day, which would serve us well each year to remind us of our heritage of individual freedom, we hie away to our recreation retreats to gorge ourselves in our favored pleasures that have been allowed to us only as one of the many bounties of our freedom from tyranny.

As one recent observer of national affairs summed up the present scene, "Americans are today smothering from the love of comfort and the desire not to be bothered by bad news." As another current thinker so aptly stated, "A generation that has no respect for the contribution to progress of its ancestors will have no concern for posterity."

Space will not here permit any detailed diagnosis of America's dilemma in this volcanic age nor do we claim the wisdom to prescribe a sure remedy. However, we do presume to make a few observations that fall within both the diagnostic and remedy areas of thought.

Recently there has been a big "Debate on National Purpose" which has been spread upon the pages of a national magazine and continuing for five issues. In effect, the series constituted a diagnosis and some proposed cures. A disturbing formula, blatantly advocated by one writer and suggested in more subtle forms in most of the articles in the National Purpose series declared that American interests were too individual, that there must be more "public responsibility" which means more government, before we can present to the world "a convincing working model of a free society."

Why have we strayed so far from the only truly liberal concept of political life ever recorded—the concept that freed us from the initiative-stifling control of totalitarianism and permitted rugged individualism to create the world's most productive and benevolent civilization in America?

It seems that somewhere in the 1930's rugged individualism was smeared as an associate of industrial piracy with defiance of moral checks, with exploitation. In our headlong retreat from individualism we have yielded to the temptation to shed personal responsibility which has been done in the past with grim consequences, some marked with tombstones of a dead civilization.

Because of our eagerness to have others make our hard choices, there is often loud complaint about the lack of

leadership in Washington, in our state capitols and in our local governments. But Washington and our other seats of governmental power are inhabited by individuals as in other parts of the country. If our living goal is to hide in a social group, if we shrink from being rugged individuals and consistently low rate individualism, why should we expect good leadership? As we sell individualism short, we cut the roots of democratic leadership and open the way for demagogues.

We demand guidance counselors in our schools, but what kind of guidance are they giving? Are they seeking to challenge our youth to be themselves and take the economic risks that go with following a vocation of their own preference, or are they advising them to "play it safe" and pick the life work that seems likely to be most rewarding financially rather than to yield the greatest intellectual, emotional and spiritual satisfactions?

The facts indicate that counseling today, both by professional and lay business counselors, leans heavily toward the mood and the framework of economic determinism. It is a defensive technique that is fatal to the concept of leadership and even falls short of good training for citizenship. Worse still, this advice to choose a vocation on the basis of economic determinism plays right into the hands of the Soviets, for economic determinism is the professed key to their philosophy and their policy. They relentlessly stress that the material life of society is primary; the spiritual secondary. Such a philosophy is a complete denial of the historic American dream—the exact opposite of the ideals which shaped American history. And the irony of it all is that many who have roundly condemned un-Americanism and Communist infiltration have embraced the Stalin doctrine in their counseling of youth. In so doing they have created the feeling frequently expressed in the new nations in Africa and Asia that there is little to choose from between the declared materialism of Communist Russia and the unconscious materialism of the United States.

We have ventured a partial diagnosis of our country's dilemma. What is the remedy?

In capsule form, the solution to our dilemma is to stop our retreat from rugged individualism, and move forward under our freedom formula of "less government and more individual responsibility," and thus recreate the image of the historic American ideal that once shone brightly as the hope of downtrodden people throughout the world. If we would cure our disease of collectivism in our domestic life and kill the virile germ of Communism both at home and abroad we can no longer shun risk or shy away from being controversial. We shall be called upon to use our best persuasive powers to explain the freedom philosophy by every possible means of communication. We shall need to stand for justice and freedom consistently in principle and in detail, regardless of popular notions to the contrary. And above all, we shall need to pray for wisdom, guidance, courage and a zeal for freedom that will match the zeal of our enemies to enslave us.

Twice before in a single generation, during World Wars I and II, Connecticut mechanical and managerial skills furnished the indispensable sinews to win victory over dictators. With equal determination, imagination and drive we can win a third victory over the totalitarians in the all-out war for men's minds.



Snap Gage Micrometer being used by Niles J. Brook, vice president. Two gages, top and bottom, allow rapid production inspection of outside diameters of anvils to be installed in large micrometers. (Right) The J. T. Slocomb Company plant in South Glastonbury.



The Micrometer-Symbol of P

■ AMERICA is a land of plenty. We are blessed with all forms of modern conveniences. Our machines are faithful servants performing the most menial and highly complicated tasks. If you were asked to name the reason for our affluence in one short phrase, you might ponder but soon you would arrive at the obvious answer—mass production.

But what made mass production possible? Again the answer is clear—the ability to make precision parts conforming to exact dimensions. Precision measurements enable the interchangeability of component parts and make it possible for many manufacturers to work on an intricate machine or engine. Modern technology demands precision; without it there would be chaos and disaster.

Symbol of Mass Production

If the science of mass production ever adopts a symbol, it should be the crescent-shaped tool familiarly called "Mike." The micrometer has become

the constant trustworthy companion of the skilled craftsman. No artisan, however skillful, can work to a higher accuracy than that of his measuring instrument.

One of the most widely known and internationally respected micrometers is that made by the J. T. Slocomb Company, Glastonbury, Connecticut. (The English manuals on micrometers insist on calling it Slocombe.) The firm dates back to 1891, the year which ushered in not only the "gay nineties" but was the harbinger of the "horseless carriage" which changed the face of America and altered our living and working habits.

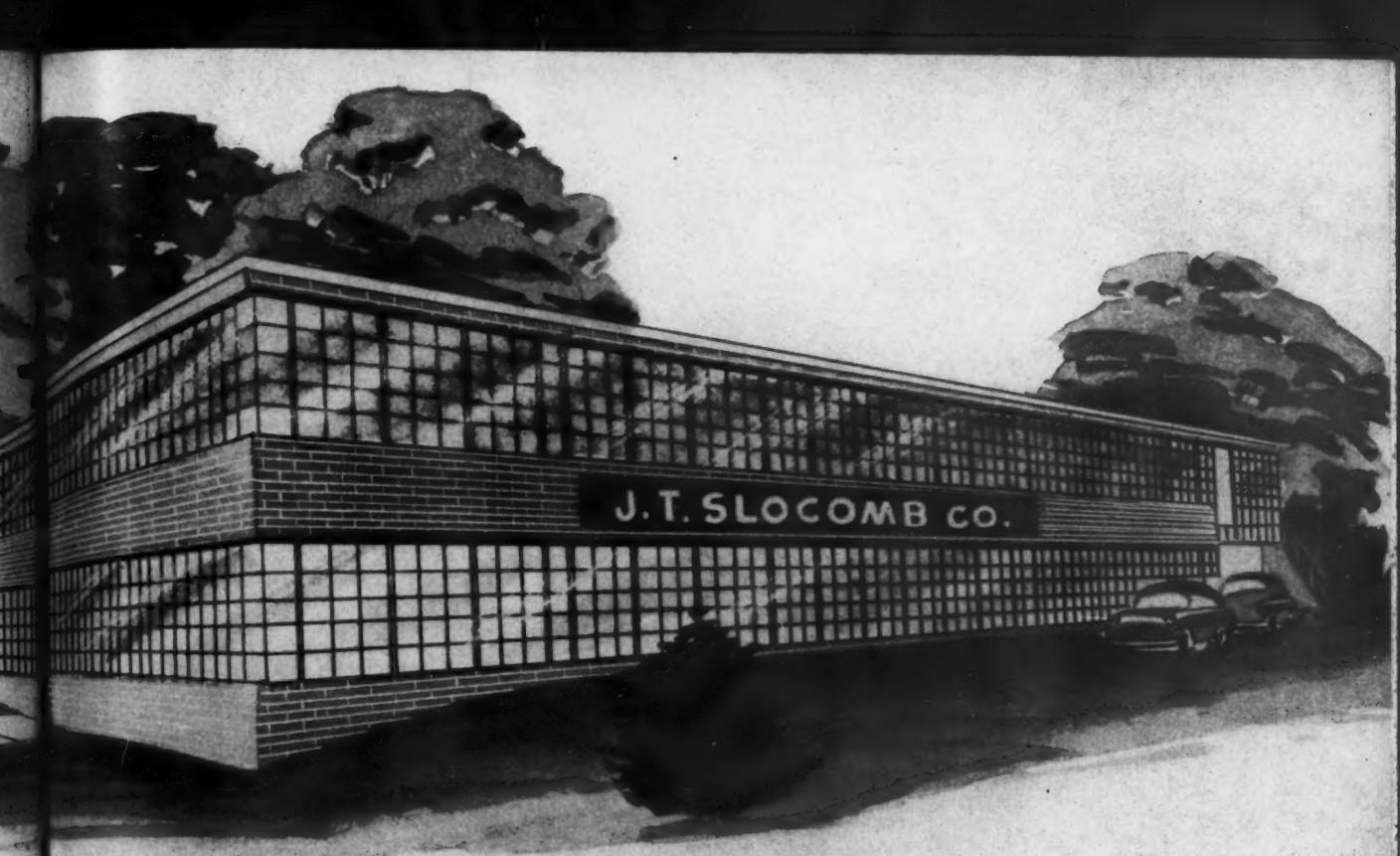
Today, we live in a world of precision. A mere one-thousandth of an inch error in your automobile piston, in your refrigerator motor and other appliances can cause havoc. Your engines and motors will burn up. Without precision our machines and vehicles would become useless mechanical monsters. Complete accuracy, dependability, versatility, ruggedness and uniqueness are terms used synony-

mously with the J. T. Slocomb micrometers.

"Speedmike"—Geared to High Speed Production

The Glastonbury firm holds most of the basic patents associated with special purpose micrometers. They fabricate over 900 types and sizes capable of measuring thicknesses from one ten-thousandths of an inch (0.0001) to six feet and more, if needed. Their most unique micrometer is the "Speedmike" which can be read directly like the mileage meter on your car. It eliminates time-consuming calculations and errors, preventing material and production losses.

As a measuring instrument, the micrometer is based on the principle of the calibrated screw. The screw contains forty threads to the inch. By turning the screw one revolution you move it one-fortieth or twenty-five thousandths of an inch (0.025). Each revolution is divided into twenty-five division or fractions. Hence, each di-



This direct reading micrometer is a Slocomb exclusive. It can be read digitally like the mileage meter on an automobile. It eliminates time-consuming calculations and errors resulting in material and production time losses. Speedmike can be used by a semi-skilled operator.

of Precision

vision represents one-thousandth of an inch (.0001).

To read a conventional micrometer you count the number of revolutions and add any fraction. Both the micrometer sleeve and thimble, which fits over the barrel, contain scales to count the revolutions and aid in translating them into measurements. The Speedmike, on the other hand, has only three small portholes arranged horizontally along the barrel. Each porthole shows one number. By merely scanning the three numbers you get a quick direct reading. For example, if 1 2 3 appears, this totals one-hundred and twenty-three thousandths of an inch (.123).

The significance of the Speedmike is clear not only in decreasing errors and saving valuable time but it can also be used by a semi-skilled operator.

The Speedmike, although first manufactured in the 1920's, was never toolled for mass production. But since 1953, when a group of foresighted, versatile young men purchased the J. T. Slocomb Company and merged





Quick acting dial type micrometer is used by a receiving inspector at the J. T. Slocomb plant to rapidly measure sheet metal stock thickness. Top dial is read numerically and directly, eliminating a specially skilled or trained operator.

their other interests, the Speedmike has become one of the most popular lines.

Origin of J. T. Slocomb Company

The J. T. Slocomb Company originated in Providence, Rhode Island, in 1891. At that time, John T. Slocomb and his partner, C. E. Barlow, operated the plant. In 1915, the business was acquired by William McSkimmon. Fifteen years later Mr. McSkimmon's son, Donald, took the reins of management. In the fall of 1953, he retired and sold the firm to the present enterprising group who moved the company to Connecticut.

New Owners Diversify Production

The group represented the heads of two relatively new but growing con-

cerns—Green Machine Company and Turbo Industries. Since 1946, the Green Machine Company had been fabricating special parts for aircraft engines while Turbo Industries had been manufacturing (since 1951) temperature and pressure measuring instruments. The owners of both companies were seeking a firm which would allow them to make and sell their own finished product, which became available with the discovery and purchase of The J. T. Slocomb Company.

The purchase was made on the strength of the advice and experience of Daniel Provan, present vice-president of J. T. Slocomb and former general manager of Turbo, who was familiar with all makes of micrometers and knew Slocomb's reputation for quality. Within a few months both local companies were merged into J. T. Slocomb to streamline the operation.

Today, the firm not only produces micrometers but develops and fabricates highly specialized aircraft engine parts such as thermocouples, turbine blades, case weldments, high temperature resisting bolts, carbon face oil seals which separate oil from air, complete rocket nozzle assemblies for the Vanguard program and other components.

Expansion and Modernization

The foresightedness, flexibility and know-how of the five officers who direct the company can be seen in the company's development. When they acquired J. T. Slocomb in December, 1953, they leased a plant on Naubuc Avenue, Glastonbury. This had two floors, 12,000 square feet, and housed 45 employees. Two years later additional space was added and an adjacent building was rented. But space was still inadequate.

In the spring of 1956 the Company bought the Matson Mill property and started converting the mill into a smoothly functioning industrial plant. "The job was accomplished almost completely by the company's maintenance crew directed by the foreman. Meanwhile, operations were maintained in the leased building," proudly states Niles J. Brook, vice-president of sales and engineering. "By Fall," Mr. Brook said, "we opened our new quarters containing 50,000 square feet of working area and another 30,000 square foot area for future expansion. We had 200 employees on our payroll."

"We have always attempted to look ahead, to be prepared for the industries' needs and offer them a highly reliable, durable precision instrument," observes E. John Gregory, president and general manager. "In so doing, our outdated machinery was sold and we installed the latest equipment. Based on considerable research and market analysis," Mr. Gregory stated, "we established new production methods to improve our product and reduce cost."

Product Improvement

The Speedmike is now mass produced, is available in sizes ranging from one to six inches and larger dimensions on order. J. T. Slocomb maintains an attentive ear for suggestions from the people who know best—the consumers. In the past, the three numbers on the micrometer barrel visible through the "portholes" were not covered. Although the space between the dials and their housing was very tight, tiny foreign particles filtered through and occasionally caused interference in the fine gear mechanism. The company now plans to cover the three

portholes with magnifying lenses making them dust-tight.

But the Speedmike is not the only exclusive item. All Slocomb micrometers are constructed with a unique adjusting nut assembly providing full engagement with the spindle thread. This feature makes the sensitive instrument shockproof. If a workman accidentally drops the micrometer on the hard concrete shop floor, it will still be in perfect operating order. Many craftsmen cannot easily adjust themselves to this disconcerting experience and are still compelled to ease their mind by checking out the instrument's accuracy. Eventually, they accept the ruggedness of this normally delicate tool.

"Mikes" for Every Need

Slocomb boasts "The most complete line of micrometers in the world." The slogan was not conceived by hucksters. The entire Slocomb line includes over 900 micrometer varieties measuring everything from metal to paper. There are sheet metal micrometers designed with a deep elongated crescent to perform a special job. The quick-acting dial "mike" was developed to rapidly measure moving materials in rolling mills. For determining the wall thickness of tubing, the specially designed tube micrometer is available. In measuring the pitch diameters of screw threads, the screw thread "mike" would be used. The thickness of airfoil surfaces can be quickly measured with the airfoil micrometer. There is also the disc "mike" for measuring ring grooves, ribs, paper, cloth, plastic, rubber and other soft materials.

In the larger size micrometers from 36 inches to 5 feet and larger, Slocomb has introduced Rigitube construction combining the weight-saving structure of a reinforced tubular frame with the great rigidity for accuracy. Storage racks, storage cases, combination optional features, varying terminals, anvils and spindles are all part of the Slocomb line to meet individual requirements.

Personalized Service in Home State Market

Although Slocomb micrometers have found their way all over the world, the firm is not the largest in the country. It ranks fourth or fifth. Perhaps, because of this, some New England customers fail to look in their own back yard. A classical illustration was when the Hartford Electric Light Company (HELCO), Middletown, Connecticut, was overhauling its large steam tur-

(Continued on page 64)



Speedmike parts ready for assembly. Over fifteen tooled pieces make up Slocomb's exclusive direct reading Speedmike micrometer. (Left to right) frame, bushing, dials, dial sleeve, spindle, large adjusting nut (a unique feature), tension spring, compensating nut, thimble and thimble retaining screw. In front are pinion housing clamp screws, pinion and pinion support.

"Quick, give me the front office. . . . They just hired me a man who needs a micrometer with, 'It's 5 and a long line, a little line and three itty bitty marks!'"

SLOCOMB
direct reading
SPEEDMIKE
is the answer

Cartoon by American Mechanical

"Speedmike is the Answer" cartoon is used by J. T. Slocomb as part of their advertising program. Humor represents a cogent truism.



Little Lorraine Maramarco points to special Veeder-Root counter which has just recorded her as the 498th family day visitor. With her is her mother, Genevieve Maramarco, her brother Anthony, and friend Theresa Cota.



Anthony, Lorraine and Mrs. Maramarco watch Dad, who is in the Inspection Department, as he shows them how he checks quality on a part.



The Maramarco family look in on Veeder-Root's "white room" where miniature mechanisms are precisely assembled.

Family Day At Veeder-Root



The Maramarco family joins crowd at one of Veeder-Root's several product displays.



Mrs. Maramarco and the children chat with President W. C. Stauble in his office.



Visitors view a section of assembly operations.

■ VEEDER-ROOT INC. recently completed an extensive plant modernization and rearrangement program in both its Sargeant Street and Homestead Avenue plants in Hartford. Alert to the importance of employee communications, the company kept its employees fully informed about the purpose and progress of the program. The climax occurred on May 18, when Veeder-Root held a family day open house so families and friends of its people could see the operations of this world famous manufacturer of counting, controlling and computing instruments.

Planning In Depth

Veeder-Root people had a preview on the two days preceding family day, and for five months preceding the event almost all employees participated in one way or another in the careful preparations. Officers and directors of the company had their own preview on the afternoon before the big day.

Planning was started early in December, 1959 when an actual completion date could be established for updating facilities of the firm. While many companies become discouraged with outmoded facilities and move to new locations, far-sighted Veeder-Root planners visualized the potential of their existing buildings and went to work to convert their thoughts into working realities. The pay-off was demonstrated on family day when more than 5,000 guests toured the plant and offices and saw the efficient, pleasant

results ideally adapted to small parts manufacturing.

Two months before family day, W. C. Stauble, Veeder-Root's president, told employees whom he always refers to as his associates, that the date was set for family day. He also said: "We think visitors will be seeing an entirely new Veeder-Root. They will see new production equipment, the latest in lighting and pleasant working conditions, the best in testing and laboratory layouts and equipment streamlined receiving and shipping departments—all designed to bring in more orders for quality products we can make and ship at a profit."

Growth and change are part of the Veeder-Root tradition. More than a quarter of the total business of the company today comes from the production and sale of products which did not exist 20 years ago. From the bicycle cyclometer of 1895 to space ship controls in 1960 covers a world of progress signalized by Veeder-Root's ability to think modern and cling only to that of the old which is helpful in creating the new. It was this growth and change that the company sought to dramatize through a carefully planned family day.

Plans for family day started with the appointment of James F. Luby, director of industrial relations, as general chairman, by Vice President Leon J. Dunn. Assisting him were Gilbert T. Covert, Factory Manager, in charge of routes and guides; Peter H. Morganson, Assistant Chief Engineer, signs and exhibits; Allan L. Burton, Director of Research and Develop-

ment, traffic and parking; Robert L. Tetro, Secretary and Assistant Treasurer, tickets and name cards; and C. Charles Lombardi, Sales Manager, hospitality. They were assisted and guided by Fred Barrett of Martin Wright & Associates, Inc., Veeder-Root public relations counsel.

Committees were formed extending participation as far in depth as possible. Interest ran high during the planning stages as everyone took part in providing ideas and suggestions and in getting the important spade work done. Everyone was kept informed through management news bulletins, newsletters, and bulletin boards. Rumors, usually rampant when a company plans a special event, were non-existent because everyone had all the facts right through the planning stages.

In order to handle the expected visitors, the decision was made to adjust the working schedules for the day of the open house to allow the plant to be in full operation and open to visitors from 4:00 P.M. until 9:00 P.M. Invitations mailed stated that tours would be from 2:00 to 4:30 in the afternoon and from 6:00 to 9:00 in the evening. The first visitor arrived at 1:13, but all was in readiness 47 minutes early.

Hopes for a record attendance faded with drops of rain which fell during most of the day, but a steady stream of wives and children, cousins and aunts, uncles and friends made the hour-long trip which covered every nook and cranny of the plant and offices. Like an old Horatio Alger story children went the full route from the receiving department to the president's office.

Employees Explain Jobs

Individuals working at their regular jobs took delight in explaining exactly what they were doing to visitors who paused to watch a particular manufacturing or assembly operation. Guests were fascinated with the one area in the entire company where they could not get a closeup view, but had to observe through glass windows. This is the "white room" where Veeder-Root people, specially chosen for their skill, assemble tiny size precision counting instruments used in missiles, rockets and aircraft. Here is a sealed-off, temperature-controlled, glass-walled area which is one of the most advanced environment-controlled assembly areas known. People who work here wear white nylon coats and caps which are vacuum cleaned as they enter the room, where even the air is electronically filtered to remove dust and other impurities.

(Continued on page 28)



William Horowitz, right, chairman of the State Board of Education and vice president of Botwinik Brothers, Hamden, chats with MAC President Harvey L. Spaunburg, center, and Frederick H. Waterhouse, executive vice president, at the first annual Industrial Education Awards luncheon of the Association. Awards went to the highest rated student in each of the state's technical schools.



MAC Vice President Carlyle F. Barnes makes Citation of Merit award to Roger Wasco, J. M. Wright Technical School, Stamford. Other prize winners are, left to right, Henry Lattanzi, Jr., Bullard-Havens Technical School, Bridgeport; James McGuire, Henry Abbott Technical School, Danbury; Ronald Mancini, Warren F. Kaynor Technical School, Waterbury, and George E. Martin, Oliver Wolcott Technical School, Torrington.

MAC Presents First Industrial Education Awards

■ REALIZING that the future industrial growth of Connecticut depends upon its industrial education resources, including facilities and teachers, and above all, the quality and diversity of the skills acquired by Connecticut's youth, the Association, from its earliest days as a corporation, has continued to foster industrial education in the state. It has promoted not only the expansion of facilities to keep pace with the state's growing population, but also has sought to encourage more young men to enroll

and complete one of the scores of combination apprentice training and technical education programs open to them in Connecticut's metal working plants.

During the past few years MAC's efforts have taken the form of a co-operative effort with the Central Connecticut and Western Massachusetts and the Southern Connecticut Chapters of the National Tool and Die Association to encourage the expansion of apprentice training in combination with technical education and to stim-

ulate enrollment in these programs by a larger number of high school graduates. The program also sought to interest more companies to launch apprentice training courses.

This cooperative effort took the form of an annual Metal Trades Competition which tested both the theoretical knowledge and manual dexterity of the qualified apprentices who were entered in the contest by their employers, with non-money prize awards being given to the six highest scoring contestants and recognition to the next highest rated finalists in the competition.

Noting the rapidly changing technology which has been occurring in recent years, as well as a growing shortage of trainees, the Association's Board of Directors with the cooperation of the Vocational Division of the State Department of Education, sought to stimulate greater interest in technical training by inaugurating late in 1959 an annual Industrial Education Award program which would give an award of \$50 and a Citation of Merit to the highest rated student in each of the state's technical schools.

At the First Annual Presentation luncheon held at the Hartford Club, May 18, fifteen Connecticut young men were honored for their outstanding records in industrial education as members of the 1960 graduating classes at the state's fourteen technical schools and the one technical institute.

Taking an active part in the ceremonies, attended by the students and their instructors were: Harvey L.



MAC President Harvey L. Spaunburg presents Citation of Merit to Richard T. Desloge of Stafford Springs, prize winner from the Windham Regional Technical School in Willimantic. Other winners are, left to right, Peter Senak, Jr., Hartford State Technical Institute; Peter Panteleakos, H. H. Ellis Technical School, Danielson; Wayne P. Walker, Eli Whitney Technical School, Hamden, and Kenneth W. Sullivan, Albert I. Prince Technical School, Hartford.



Emmet O'Brien, director of the Vocational Education Div., State Dept. of Education, congratulates Robert Bocompani of the E. C. Goodwin Technical School, New Britain. Other prize winners are, left to right, Karl H. Yetter, Norwich Regional Technical School; Robert Rukas, Howell Cheney Technical School, Manchester; Warren Hass, Horace Wilcox Technical School, Meriden, and Emilio N. Cofrancesco, Vinal Regional Technical School, Middletown.

Spaunburg, president of MAC; Carlyle F. Barnes, vice president, and Frederick H. Waterhouse, executive vice president; and Emmett O'Brien, director, Division of Vocational Education, Connecticut State Department of Education.

Head table guests at the luncheon included William Horowitz of New Haven, Chairman of the State Board of Education, Richard W. Howes, Assistant Director of the Division of Vocational Education, and Dr. Theodore Powell, public information officer of the Department of Education.

In his brief opening remarks Mr. Waterhouse welcomed the prize-winning students and spoke of his pleasure in being able to inaugurate the Industrial Education Award program on an annual basis. He also expressed the hope that the awards would be an inspiration to them in reaching a high standard of excellence in their life work.

President Spaunburg, after recalling a number of memorable events in his own career, emphasized the fact that their graduation marked only a stepping stone or commencement of their lifetime of education. He observed that to attain success they would find it necessary to carry on a continuing program of study in order to keep abreast of our fast-changing technology. Again referring to his own life experience, he emphasized the joys of working with one's hands in creating something as a means of relaxation and mental stimulus.

Mr. O'Brien joined in the sentiments expressed by Messrs. Spaunburg

and Waterhouse and re-emphasized the necessity for constant study by the graduates to keep abreast of current developments and thus assure their progress in their respective areas of endeavor.

The awards of \$50 and a Citation of Merit were presented by Carlyle F. Barnes, vice president of the Association. The prize winners and their field of specializations were:

Hartford County—Kenneth W. Sullivan, son of Mr. and Mrs. George J. Smith, 113 Westland St., Hartford; Albert I. Prince Technical School, Hartford, mechanical drafting; Robert Rukas, son of Mr. and Mrs. Joseph Rukas, 590 North Main St., Manchester, Howell Cheney Technical School, Manchester, machine shop practice; Robert Bocompani, son of Mr. and Mrs. Peter Bocompani, 25 Willow St., New Britain, E. C. Goodwin Technical School, New Britain, machine tool practice; Peter Senak Jr., son of Mr. and Mrs. Peter Senak, 356 East Road, Bristol, State Technical Institute, Hartford, electrical technology.

Litchfield County—George Martin, son of Mr. and Mrs. Edward Martin, East St., Litchfield, Oliver Wolcott Technical School, Torrington, mechanical drafting.

Tolland County—Richard T. Desloge, son of Mr. and Mrs. Louis H. Desloge, 276 Park St., Stafford Springs, Windham Regional Technical School, Willimantic, electrical practice.

Windham County—Peter Panteleakos, son of Mr. and Mrs. Potes Panteleakos, 9 Leander St., Danielson, H. H. Ellis Regional Vocational-Techni-

cal School, Danielson, machine shop practice.

Middlesex County—Emilio N. Cofrancesco, son of Mr. and Mrs. Charles Cofrancesco, 1 Stow Ave., Middletown, Vinal Regional Technical School, Middletown, mechanical drafting.

New London County—Karl H. Yetter, son of Mr. and Mrs. John H. Yetter, Box 168, Toll Gate Rd., Groton, Norwich Regional Technical School, mechanical drafting.

New Haven County—Wayne P. Walker, son of Mr. and Mrs. Charles Walker, 51 Windsor Rd., Hamden, Eli Whitney Regional Technical School, Hamden, machine shop practice; Ronald Mancini, son of Mr. and Mrs. Dominick Mancini, 117 Tudor St., Waterbury, Warren F. Kaynor Regional Technical School, Waterbury, mechanical drafting; Warren C. Hass, son of Mr. and Mrs. Richard Hass, 119 Windsor Ave., Meriden, Horace Wilcox Technical School, Meriden, electrical practice.

Fairfield County—Henry R. Lattanzi Jr., son of Mr. and Mrs. Henry R. Lattanzi, 45 Rockland St., Bridgeport, Bullard-Havens Technical School, Bridgeport, mechanical drafting; Roger Wasco, son of Mr. and Mrs. Michael J. Wasco, 79 Elizabeth Ave., Springdale, J. M. Wright Technical School, Stamford, mechanical drafting; James F. McGuire, son of Mr. and Mrs. James E. McGuire, 21 Virginia Ave., Danbury, Henry Abbott Technical School, Danbury, mechanical drafting.

Jobs for the Handicapped— Passports to Dignity

PATRICIA ANN BROWN
Wallingford, Connecticut

Editor's Note—This essay won first prize of \$500 and an all-expense trip to the annual meeting of the President's Committee on the Employment of the Physically Handicapped in Washington in the 1960 essay competition sponsored by the Connecticut Governor's Committee on Employment of the Physically Handicapped and participated in by 364 essay contestants from 16 areas of the state.

In addition, Miss Brown's essay won a local prize of \$25 and a plaque placed in Lyman Hall High School, Wallingford, where she is a senior, a member of the Honor Society and editor of her class year book. She is also a finalist in the National Merit System Scholarship Awards Contest.

Because she so ably presented the case for hiring the physically handicapped, C.I. is publishing her essay in the hope that it may promote the hiring of a larger number of physically handicapped persons.

M.A.C., as a member of the Governor's Committee on Employment of the Physically Handicapped, was, in a very real sense, a sponsor of the contest. Among its members who have contributed most of the funds to make the contest awards possible are: Acme Wire Co., C. H. Dexter & Sons, Inc., Flexible Tubing Co., Fuller Brush Co., Hudson Paper Co., Pitney Bowes, Inc., Royal McBee Co., Stamford Rolling Mills.



PATRICIA A. BROWN

■ HISTORY has seen many handicapped people rise to greatness in spite of their misfortunes. Moses became the great lawgiver, the mouthpiece of God, although he suffered from a speech impediment. He said he was not equal to the task of delivering Israel, declaring, "I am slow of speech, and of a slow tongue."¹ God urged him to overcome the difficulty, for He said, "I will be with thy mouth, and teach thee what thou shalt say."² A disease which most authorities have identified as epilepsy could not keep Saul of Tarsus from one of the greatest missionary endeavors of all time: the conversion of a world to Christianity. John Milton, afflicted with blindness from the age of forty-five,³ composed *Paradise Lost*, one of the best-known English poems, after the loss of his sight. Picturing in his mind's eye the scenes and characters of the great drama, he dictated to his daughters vivid lines such as:

"At once as far as Angels ken he views
The dismal Situation waste and wild,
A dungeon horrible, on all sides
round
As one great Furnace flam'd, yet from
those flames
No light, but rather darkness visible
Serv'd only to discover sights of woe,

Regions of sorrow, . . ."⁴

Ludwig van Beethoven, "the greatest name in all music,"⁵ achieved this honor by composing, in his later years, without ever hearing the notes and harmonies. Thomas Alva Edison, also partially deaf, invented some of the modern world's most useful necessities, among them the electric light bulb. Franklin Delano Roosevelt, the thirty-second president of the United States, was elected to that high office in spite of the fact that he was paralyzed from polio. These men, and countless others, illustrate the heights to which the handicapped can rise.

Handicapped Have Great Potential

The handicapped today have these same potentialities. Wars and accidents have created many handicapped persons, as well as have disease and congenital circumstances. These handicapped persons need to find their place in society. Are they to become useful,

productive citizens? Or will they become instead a burden to themselves and others? Successful rehabilitation, both mental and physical, can prepare them for almost normal living. Rehabilitation depends very much upon the emotional make-up and mental attitude of the handicapped. If he develops a good outlook on life, without self-pity or a feeling of inferiority, he has conquered his own major difficulty.

Comparison With Unimpaired Workers

The findings of the President's Committee on Employment of the Physically Handicapped illustrate this fact. In a survey of 11,000 disabled and 18,000 non-disabled workers in 100 plants, the committee concluded that "Impaired workers as a group produce at slightly higher rates than unimpaired workers on the jobs." Physical handicaps do not interfere with normal or above-normal production. "Impaired persons sustain fewer disabling injuries than non-impaired workers exposed to the same hazards," and "Impaired workers have the same minor injury rates as other workers." Employers need not worry about higher

(Continued on page 34)

¹Exodus 4:10

²Exodus 4:12

³Book of Knowledge, vol. 4, p. 1238

⁴Paradise Lost, Book I, 11, 59-65

⁵Book of Knowledge, vol. 19, p. 6915

The Importance of Scrap Control

in Reducing Costs

By D. E. PATTERSON, C.P.A.
Price, Waterhouse & Co., Hartford
(From an article prepared for
The Price Waterhouse Review)

♦ COST control is one of the most challenging problems confronting management in today's dynamic economy. With the constantly rising wages and prices in recent years, most management executives have become more cost conscious and have been placing greater emphasis on cost reduction, particularly through accounting control. One area not so often reviewed in accounting literature, but an area in which unusually large savings can frequently be realized, is that of the proper accounting control and management of scrap.

In one company, a careful study of scrap and salvage operations produced changes in procedures which resulted in substantial savings. For several years the company had scrap and material usage losses exceeding a half million dollars annually. Management was aware of this but had accepted the losses as normal for its operations. Diminishing profits in recent years caused the company to seek ways of reducing costs and prompted a special study of its scrap and material usage losses. Management was quite shocked to find that these losses could be substantially reduced through changes in procedures and controls.

In another case, a study by a company's independent accountants showed that defective castings returned to the company's foundry by its machine shop resulted in a net additional cost of about eight cents a pound. This cost applied to the company's volume of defective castings indicated losses totaling almost a million dollars annually. While much of the loss was unavoidable in this particular instance, there is, nevertheless, inherent danger in accepting reported scrap and waste as normal and proper

The careful accounting for and review of scrap and salvage operations may brighten the profit picture in many companies.

merely because their relation to production volume has remained fairly constant for several years.

Records of scrap and waste are often used to conceal diverted materials and income or stolen goods. In one recent case, a company in the publishing industry discovered that it had lost about \$300,000, mostly in a two year period, through the fraudulent disposal of both scrap and good paper by one of its employees.

The importance of scrap and waste is frequently underestimated, and opportunities for cost reduction through greater control of the generation and disposal of scrap and waste are frequently overlooked. Actually, a well

generated in the fabricating operations of manufacturing industries.

Based on data compiled by the Business and Defense Services Administration in its 1957 publication entitled "Industrial Scrap Generation," nearly 40% of all industrial iron and steel scrap comes from the motor vehicle and parts industry; over one third of all aluminum scrap comes from the aircraft and aircraft equipment and parts industry; and, about one fourth of the copper base scrap comes from the valves, fittings and plumbing fixtures industries. This publication also shows that about one fifth of all iron, steel, aluminum and copper going into production comes out as scrap:

Industry	per cent of material consumed	Iron & Steel	Aluminum	Copper
Aircraft and parts	30%	39%	18%	
Aircraft	35	48	21	
Aircraft engines	35	37	31	
Fabricated metal products	12	14	29	
Motor vehicles and equipment	30	17	18	
Screw machine products	50	49	47	
Average for all industries		19	18	20

defined and well managed scrap control and disposal program can mean many extra dollars of income. Furthermore, profits can often be increased much more quickly by reduction or elimination of scrap losses than by increasing sales—and without the capital risk.

Scrap disposal and reclamation is a big business; in dollar value it is one of our nation's most significant industries. A recent issue of the U. S. Department of Commerce's "Survey of Current Business" states that the annual consumption of iron and steel scrap in the United States exceeds eighty million tons. While a portion of this scrap represents salvage from articles no longer in use, much of it is

Industrial scrap generation ratios range from about 50% for such industries as screw machine products and ball and roller bearings, to as little as 5% for structural and ornamental work. Viewed geographically, Connecticut's scrap generation ratios for iron, steel and copper are the highest of the major scrap producing states, and for aluminum are well above the national average.

Responsibility for Scrap Control

Providing protection against losses arising from scrap, waste and spoilage is an important part of management's general responsibility for safeguarding company assets and maintaining a maximum degree of operating efficiency

Because of its length and nature this subject matter is being published in article form rather than in the usual Accounting Hints department. It was contributed by a member of the Hartford Chapter National Association of Accountants.

and economy. The protection against such losses is obtained largely through accounting records and controls, but also through personal observation, coordination of effort and assignment of individual responsibilities. Recognition of individual responsibilities is highly essential to an effective scrap control program.

Although the chief financial or accounting officer is generally considered to have prime responsibility for safeguarding assets, the responsibility for scrap and spoilage control extends to other officials, department heads, and even general factory employees. It is, therefore, most important that financial responsibility for losses due to scrap and spoilage be assigned to individual departments or cost centers. This, of course, requires sufficient records and analyses to permit the segregation of costs related thereto by departments and centers of responsibility.

In calculating the amount of loss due to scrap and spoilage, consideration must be given not only to the original value of material physically scrapped and the labor and overhead applied to it, but also the labor and overhead costs of salvaging, rework, repair and inspection operations related to or resulting from defective and spoiled work. By fixing the responsibility for these financial losses, the need for control is emphasized and the chances of effecting cost reductions in this area is greatly enhanced.

Responsibility for Defective Work

Although some amount of defective or spoiled work is inevitable, the fact is that defective work does not just happen; it is caused. It may be due to carelessness on the part of machine operators, inadequate supervision of factory employees, the use of defective materials or the wrong materials, faulty equipment and tools, and errors in product design and processing. While this list does not include all possible reasons, it should be indicative of the wide area of responsibility for reducing and minimizing losses due to defective work.

The quality of workmanship is, of course, within the jurisdiction of the production supervisors and foremen. The condition and types of raw materials and parts used are the responsibility of several departments, including engineering, procurement, materials handling and inspection as well as the production departments. The production, engineering and maintenance personnel are responsible for the nature and condition of tools and equipment used in production. The engineering department must also assume responsibility for product design and

processes. The salvage department's duties include the collection, segregation, reclamation and disposal of scrap and waste, but this department, too, ought to be instrumental in reducing the amount of scrap loss.

This wide range of responsibility points up the need for definite assignment of individual responsibility and coordination of effort. It again emphasizes the necessity for adequate records and analyses of the cost and causes of defective work and scrap losses.

Establishing Controls

Cost analyses usually do not probe deep enough to expose and evaluate the several causes of defective work and scrap losses. Furthermore, it may be many days or even weeks after the losses have been incurred before the analyses are available for use. In order to track down the areas and eliminate the causes of such losses, cost analyses have to be coupled with good statistical quality control on the production line. And control of quality is obtained largely through the control of spoilage.

In establishing controls or in expanding existing controls, business judgment must be exercised in weighing the relative risks against the cost of the controls. It is conceivable that inadequately controlled scrap, spoilage and waste might result in losses equal to, or greater than, those which may arise in other areas where elaborate controls have been provided. The required degree of control has to be determined on the basis of knowledge of the company's operations and the nature and causes of its defective work and scrap losses. This can effectively be done through special statistical and scientific studies by production engineering, production control and accounting department representatives working together as a management team.

Comparisons of the company's operations with those found in similar plants and comparisons of its scrap generation ratios with the average for the industry may prove helpful in evaluating controls over scrap. Such comparisons will not, however, prove that the controls employed are either adequate or inadequate. If the company's accounting system already provides for scrap, spoilage and rework reports, they must be studied and analyzed as to sources and causes of loss. In some cases the production, salvage and rework operations and the scrap itself may have to be physically inspected and studied. Finally, costs must be analyzed by the major types of defects found. Such special studies will indicate those areas in which controls need be strengthened and may also

permit greater use of sampling techniques for quality control and inspection in other areas where scrap and rework are not excessive and other controls appear to be adequate.

Elements of Control

In any system of internal control, and particularly with respect to defective work and scrap which can have an important bearing on a company's profits, the procedures established are more apt to be carried out effectively if they are reduced to writing for each department concerned. The procedures must provide adequate accounting control over the volume of scrap and rework through the measuring and reporting of the quantities and types of scrap created, the amounts of and reasons for rework required, and the physical disposition of scrap.

Defective materials and spoiled work sent to the salvage department should be accompanied by tickets or reports prepared at the point of generation. For accounting control, such reports should be pre-numbered and should show not only the quantity and description of items, but also the source and cause of rejection. After the scrap or salvage department has physically checked the quantity and indicated its disposition on the ticket, the original report should be sent to the cost department for pricing and then routed to general accounting. At the time of initial preparation, copies of each ticket or report may be directed (a) to the general accounting department for control, (b) to the production control supervisor or plant manager for information and possible investigation, and (c) to the responsible department foreman. The specific manner in which the reports are handled will, of course, depend on the nature of the company's manufacturing, salvaging and accounting routines. The important thing is that there be a report.

The detail reports of scrap and rework quantities should be summarized periodically and, where possible, related to product yield. Where there is some uniformity in the amount and types of scrap produced in particular operations, the quantities of normal or inevitable scrap and rework can usually be predetermined and anticipated. Standard factors developed and applied to production quantities can be used to check on the reported rework and scrap recoveries.

Segregation and Disposal of Scrap

It is also important to have a physically segregated salvage and scrap area and regular collection and disposal

(Continued on page 44)

News Forum

This department includes a digest of news and comment about Connecticut industry of interest to management and others desiring to follow industrial news and trends.

◆ HARRY T. SILVERMAN, president of the Plume and Atwood Mfg. Co., Thomaston, has announced the appointment of Thornton Q. Raney to the position of New England District Sales Manager. In his new position Mr. Raney will be responsible for sales promotion, merchandising and the development of new accounts.

He has recently been New England District sales manager for the Volco Brass & Copper Co., Kenilworth, N. J.

◆ MISS MARY ANN PAPA, senior at New Britain High School, has been awarded the first prize of \$500 by The Stanley Works, New Britain, in its fourth annual essay contest on the subject "The Role of Industry in the Development of America."

Miss Papa was one of four members of the senior class who won prizes for their essays in the contest. Other winners were William A. Levine, Miss Rebecca C. Zucker and David J. Ahlgren, all of New Britain.

The winning essay dealt with the importance of wood pulp as a basic industry supplying the raw material for production of numerous goods in widely varied fields.

Winners were chosen by a committee of judges consisting of Professor

Walter B. Fulghum, head of the English Department at Central Connecticut State College, Arthur E. McEvoy, managing editor emeritus of the New Britain Herald and John S. Black, Jr., secretary and general counsel of The Stanley Works.

◆ THE LAMPLIGHTER (Series 15,000) is a new photoelectric lighting control developed and produced by The Acme Wire Company, Utility Products Division, New Haven. The compactly designed control has an injection molded plastic cover and base to provide high dielectric strength. A series of exterior ridges makes handling easier and facilitates installation. A twist-lock base, conforming to EEL-NEMA standards, fits all standard receptacles.

Although a non-fused model is available, the control offers fuse protection in case of overloading. Protection against surges from both the line and the load is provided. In addition, the components are protected against lesser surges by a rare gas lightning arrester built into the series 15,000 control.

◆ PAUL K. ROGERS, JR., president of The Skinner Chuck Company, New

Britain, has announced Skinner's acquisition of the Horton chuck line from the Geometric-Horton Division, United-Greenfield Corporation, New Haven. Horton chucks have been manufactured in the Geometric-Horton plant in New Haven.

The transaction includes the purchase of chuck trade names and trademarks, machinery, jigs, fixtures, inventory, drawings and patents of the Horton chuck line.

A major part of the Horton line includes large-size chucks up to 60 inches, and a line of electric chucks, types and sizes not manufactured by Skinner.

◆ THE ARMSTRONG Rubber Company, West Haven, has announced plans for a new \$25,000,000 tire producing plant to be built in Hanford, California. With a production capacity of 10,000 tires daily, the new plant will initially employ 1,000 workers. Eventually total employment is expected to increase to 1,600.

Complete facilities of The Armstrong Tire and Rubber Company, fifth largest producer of tires in the industry, include the main office and plant in West Haven, and three other factories—in Norwalk, Des Moines, Iowa and Natchez, Mississippi.

◆ EXECUTIVE CHANGES in The American Brass Company, Waterbury, have been announced by Richard M. Stewart, president.

Edward M. Bleser, secretary and treasurer of the company, has been elected to the board of directors replacing James F. Ackerman who has retired.

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Justice Lockwood, vice president in charge of sales, has been named vice president, succeeding Mr. Ackerman.

Allen W. Rockwell, vice president-New England Sales Region, has been appointed vice president in charge of sales and Carl E. Woodward, director of market planning, has been named assistant to the president.

♦ VEEDER-ROOT INCORPORATED, Hartford, manufacturers of computers and counting instruments, has announced that it is expanding its West Coast operations to include manufacturing as well as sales and service with the establishment of a plant located at Park Place, Glendale, California. It will be known as Veeder-Root Western.

The new plant will provide manufacturing facilities for modification and testing of mechanical and electro-mechanical counting instruments for West Coast industry.

♦ BURNDY CORPORATION, Norwalk, leading manufacturer of electrical connectors, has announced another step in its long-range program of broadened service to the electrical industry. The company has contracted to acquire the assets of Husky Products, Inc. of Cincinnati, Ohio.

Husky designs, manufactures and sells aluminum and steel supporting trays for supporting power and control cables in the wiring systems of electric utility and industrial plants.

♦ A NEW lift-post fixture assembly for use in a pit-type furnace has been announced by Rolock Incorporated of Fairfield.

Construction is entirely welded fabrication, using Inconel high heat-resistant alloy. The unit consists of a central lift post approximately 5 feet high with heavy supporting base, so designed that it can expand or contract under drastic temperature changes without buckling.

Work carrying baskets are of two sizes: the larger, 13" high with 1-5/8" square openings holding 64 pieces; the smaller, 7-1/2" high with 1-1/8" square openings holding 20 pieces. Grids are of special Rolock pressure-welded three-layer construction, which is claimed to achieve desired strength with minimum weight.

♦ ARTHUR J. WASLEY, president of Wasley Products, Inc., Plainville, has announced the appointment of Earl Van Keuren as manager of the Rubber Division of the company.

Mr. Van Keuren's post is newly created, demanded by the increasing scope of the Wasley Rubber Division's operation, rapidly increasing sales and the company's expansion plans in the

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♦ HARCO LABORATORIES, INC., New Haven, has announced a new portable calibration stand which fully meets thermocouple calibration requirements of MIL-E-5009B on jet engine pre-and post-acceptance tests.

With dimensions approximating 4 feet wide by 3 feet deep by 3 feet high, the unit is available in many models, which differ only in the number of furnaces and types of readout systems used.

♦ THE APPOINTMENT of Chapman Berry as manager of advertising and sales promotion of Robertson Paper Box Company, Inc., Montville, has been announced by Ralph A. Powers, president.

Mr. Berry, formerly with William Zinsser & Company, Inc., New York, has been active in packaging and merchandising for the past ten years. For eight years he was associated with the Old Dominion Box Company, Inc., Charlotte, North Carolina, and its subsidiaries, the Dacam Corporation and the Valley Board Corporation.

♦ U. S. ELECTRICAL MOTORS, with plants in Milford and Los Angeles, California, has developed a new controlled acceleration accessory unit for 1 to 75 H.P. Varidrive variable speed motors. The control provides a soft, smooth start to minimize any sudden starts that could damage the machine being driven or the product (such as paper, plastic, or textile materials). The control would also protect equipment such as extruders where high starting torque may be detrimental to the extruding machine or the Varidrive.

To accomplish low initial torque, a reduced torque control unit is used. To suit varying load conditions and machine applications, starting torque is infinitely adjustable up to the normal rated torque of the motor. After setting the control unit for the desired starting torque, a compensator unit maintains the same approximate torque from starting to full operating speed. When operating speed is attained, the control unit is automatically removed from the circuit and the Varidrive operates normally.

♦ THE DEVELOPMENT of Hansonized Hi-Spi Threading Taps, recently announced by The Hanson-Whitney Company of Hartford, has proven most successful, according to B. G. Tyrrell, executive vice president.

Hi-Spi Taps are designed with a steep spiral flute and with several ex-

clusive features which make them superior in performance. The taps are said to provide positive chip removal, greater torque strength, higher tapping speeds and more uniform tapped hole accuracy.

The "Hansonize" treatment is a hard, black finish. The process has been developed during the last six months in the new Research and Development section of Hanson-Whitney, headed by Lewis H. Whitney, senior vice president.

♦ TRAK Electronics Company, division of CGS Laboratories, Inc., Wilton, has announced the availability of "Pre-

paring for Patent-hood," a booklet about patents for inventors and engineers.

Since the booklet first appeared in print in 1954 there has been a continuing demand for it from many sources. The booklet has just been revised and reprinted. It tells what to do with your invention idea; when to talk with a patent attorney; importance of dates and a verifier; about the patent office; application handling; revising claims; claims and patents; economic importance of patents; and foreign patents.

♦ DURING its first five years of op-

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eration the General Electric Foundation's Corporate Alumnus Program has produced total donations of more than \$2 million to 560 institutions of higher education, the Foundation reported.

Under the program contributions by General Electric Company employees to schools of which they are alumni are matched by the Foundation up to a maximum of \$2,000 a year per donor. Since the idea was introduced by the Foundation, 100 companies have established similar plans.

The total employee contribution of \$1,108,148, which when matched by the Foundation accounts for the \$2 million figure, amounts to an average yearly contribution per donor of about \$42 over the five-year period.

♦ WIRES and cables insulated and jacketed with new Teflon 100 FEP are now being produced by the William Brand-Rex Division of American Enka Corporation.

A new fluorocarbon resin developed by duPont, Teflon 100 FEP primary insulation and jackets offer a wide range potential for improved electrical designs, especially in high temperature fields. Brand-Rex is using it for hook-up wires, multiconductor cables and miniature coaxial cables.

♦ THE BOARD of Directors of The Ensign-Bickford Foundation, Simsbury, has announced the awarding of four-year college scholarships to Miss Jane A. Humphrey and Robert LeRoy and a two-year scholarship to Miss Rosemary A. Kuckel.

The scholarships are granted under a program of the local firm for sons and daughters of employees.

The Scholarship Committee for 1960 consisted of Dr. John S. Ellsworth, Jr., Yale University, Dean Gertrude Noyes, Connecticut College for Women and Robert E. Darling, chairman of the board of the company.

♦ THE SESSIONS CLOCK COMPANY, Forestville, has introduced the

Moon Glow electric alarm clock, with dial lighted with revolutionary new Panelight light, said to be more visible than any other type of illuminated dial.

Undisturbing, diffused light from the surface of the dial makes Moon Glow double as a night light.

♦ ANNOUNCEMENT has been made that Chandler Evans Corporation, West Hartford, has purchased the major assets of Farmingdale Manufacturing Corp. of Farmingdale, L. I., N.Y., a research and development organization specializing in the fields of hydraulics, pneumatics and electronics.

Chandler Evans is one of the country's largest producers of fuel control systems and accessories for aircraft and missiles.

Sidney A. Stewart, Chandler Evans president, stated that his company had acquired all Farmingdale patents and special test equipment and that Farmingdale's key engineering personnel will be moved to West Hartford where further development work and production activity will be conducted.

Recent Farmingdale developments, which Chandler Evans will manufacture and market, apply to the textile, automotive and electronics industries.

♦ W. C. STAUBLE, president of Holo-Krome Screw Corp., West Hartford, has announced the appointment of Harold A. Neff to vice president and general manager. Mr. Neff had been a vice president since 1946 and a member of the Holo-Krome board of directors since 1959. He has been associated with the company since its organization in 1929.

James F. Frazer, assistant treasurer since 1956, has also been named secretary of the company. He joined Holo-Krome in 1940 following his graduation from the Bentley School of Accounting and Finance in Boston.

William McCombe, factory manager since 1955, has been named assistant

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secretary of the company. He joined the organization in 1934 as an engineer.

♦ THE WINSTED Precision Ball Corporation, Winsted, has begun manufacture of Grade I precision steel balls. The announcement was made by Gino A. Thomas, national sales manager.

The Grade I balls will be available in a range of sizes from $1/16''$ to $5/32''$ for use by manufacturers of automotive parts, high grade bearings and valves.

♦ THE FAFNIR BEARING COMPANY has announced the appointment of Dr. Simon Meleck as full-time medical director. He succeeds Dr. Bliss B. Clark, former medical director, who will continue as medical consultant.

Dr. Meleck has been engaged in general practice in the New Britain area since July 1958 and is on the staff of New Britain General Hospital.

♦ TWO Stamford High School seniors, Lars E. Troide and James R. Greer, have been awarded four-year competitive scholarships in the seventh annual nation-wide Pitney-Bowes Scholarship Program for children of employees of the postage meter and business machine company. Four such scholarships were awarded this year.

Each scholarship is equivalent to, on a four-year basis, up to about \$9,000, depending on the college or university of the winner's choice. The other two winners are Mary Ann Tracy of Toledo, Ohio and Dale L. McCord of Atlanta, Georgia.

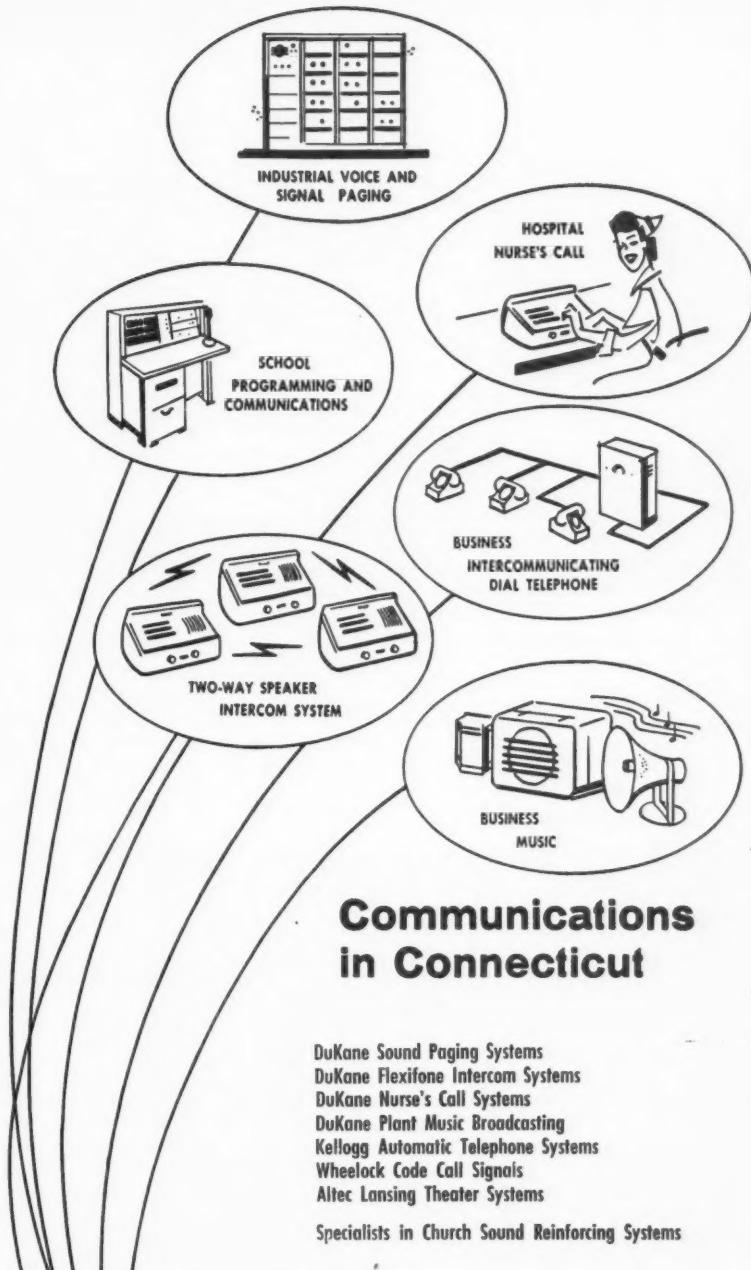
♦ TUMB-L-MATIC, INC., Stamford, designers and manufacturers of tumbling equipment, is offering a new barrel finishing unit for producing fine finishes on metal and plastic precision parts.

Designated Model XLC-2120, the barrel is mounted in a rugged welded iron frame and supported in oversize bearings at each end of the shaft. The hexagonal barrel is 20" in diameter, 21" long and lined with 1/4" thick neoprene.

Barrels are supplied with two types of drives. One type involves constant speed (set to user requirements) and the other is variable in a ratio of 10:1.

♦ ALLEN Manufacturing Company, Hartford, has announced a new type of compact, sturdy metal workbench stand that holds 16 genuine Allen Hex Keys to fit practically all Allen Hex-Socket Screws except the very large diameters.

The No. 665 Allen "Key Island" keeps keys together and ready for in-



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stant use. All keys are made from high-grade alloy steel, heat treated for added strength and toughness.

A Key Fit Table is packed with each shipping carton and tells at a glance the correct size key for each Allen socket screw product.

◆ AN INEXPENSIVE MEANS of eye protection for visitors to industrial plants is now being produced in the form of a lightweight, all-plastic spectacle.

Manufactured by American Optical Co. in its Putnam plant, the device offers a wide area of coverage through a shield-like single lens which covers both eyes. Lenses are available in both clear and green. The cost is less than a quarter the price of the average safety spectacle.

◆ THE APPOINTMENT of Samuel Wein as consultant in the field of electroless plating and printed circuitry has been announced by Harold Leever, president of MacDermid Incorporated, Waterbury manufacturer of metal finishing chemicals.

Mr. Wein, long eminent in this field, is perhaps best known for pioneering the photo-electric effects of the metals, and restification of A. C. to D. C. of the metals and corresponding sulphides. He is accredited with more than one hundred patents, dealing chiefly with electronics, plastics, photography, chemistry and the associated arts.

◆ A "PACKAGED" electronic adjustment device, automatically compensating for buff or wheel wear in high production rate finishing operations, has been introduced by The Packer Machine Co., manufacturers of completely automatic polishing, buffing and deburring machines, Meriden. The device results in reduced wheel wear, gives a more uniform finish and lowers high compound costs, according to the manufacturer.

Called the Adjusta-Matic, the electronic device is included with all new Packer-Matic machines. It is completely and automatically controlled through ampere flow by means of a special control panel where specified limits of operation are set on simple, easy-to-read dials.

◆ JOHN F. HEGARTY has been elected vice president, marketing of National Semiconductor Corp., Danbury, it has been announced by Dr. Bernard J. Rothlein, president.

Mr. Hegarty was marketing manager of the company, directing all sales activities for National's line of silicon alloy and mesa transistors which are used in missile, aircraft and

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industrial electronic applications. Before joining National, he was eastern regional sales manager of Texas Instruments, Inc., Semiconductor Division.

♦ A NEW PARTS-HOLDING fixture, designed especially for ring shaped objects, is available from WIRETEX Manufacturing Co., Inc., Bridgeport, manufacturer of heat and chemical treating baskets and fixtures.

Originally developed for clutch plates, the fixture may be used with most surface furnaces. Made entirely of Inconel, it has slotted holders, arranged in staggered tiers, to hold a workload as heavy as 400 pounds. Holders are supported by 1-1/4 inch posts supported, in turn, by a base frame made with 3/8 inch diameter rods. Holders are fitted with 1/8" thick U-rods that prevent parts from falling during handling and transfer.

♦ JAMES W. HAWTHORNE has been promoted to vice president and appointed general manager of the Haydon Division of General Time Corporation, at Torrington. Mr. Hawthorne has been serving as controller for General Time Corporation's Westclox Division at LaSalle, Illinois.

As general manager, Mr. Hawthorne will assume over-all responsi-



Louis R. Ripley (at right), president, Waltham Precision Instrument Co., which has a branch plant in Brookfield, and Forbes Morse, president, Electro-Mec Laboratory, Inc., Long Island City, N.Y., confer on plans for expansion of activities through the Waltham Company's acquisition of Electro-Mec. Mr. Morse remains as president of the latter, which designs and manufactures high precision electronic components. Waltham is one of the sub-contractors for "Project Mercury," the U.S. Government's program to send a man into space and bring him back alive.

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bility for the manufacture and sale of Haydon's nationally known lines of electric timing motors, timing devices, and clock movements.

♦ THE FOURTH special annual issue of *The Stanley World*, dedicated to all Stanley employees, is a resume of activities in Stanley's many plants from 1950 through 1959, along with a look into the company's future during the 1960's.

Presented in a graphic informal style, the edition carries articles by top management who discuss such questions as: What is the goal for Stanley's long range planning? How are we organizing for the future? What effect do foreign imports have on The Stanley Works and on jobs? What has the company done to in-

crease export business? Who are the company's shareowners? What new products were introduced by Stanley in the 1960's? What can employees do to make the 1960's better? How is marketing an important key to Stanley's future?

Printed in Stanley's yellow and black corporate colors, layout and copy carry out a format that is clean-cut and airy with the sole purpose of attracting the eye of the employee and getting across to him in as brief and attractive a manner as possible the elements of an annual report and ten-year review specifically designed for his interest.

♦ SARGENT & COMPANY, hardware manufacturer, New Haven, has announced the addition of Delrin

knobs and Fired Copper roses to the decorative trim on its full line of architectural locks.

Delrin, a new material by DuPont, offers a smooth hard surface with many metal-like characteristics. Its resistance to stain, scratch, chip, corrosion or moisture makes Delrin very desirable for hardware. The Delrin knobs are available in two designs in the choice of three colors, black, off-white or mahogany.

♦ A TRIPLE assault on materials handling and warehousing costs is being waged by Somers Brass Company of Waterbury, producer of thin gauge non-ferrous metals and stainless steel strip.

Using a unique coil tilting device which lifts, transports and tilts away from horizontal to vertical or vice versa in about 45 seconds, the Waterbury company reports that damages to the thin edges of coils in handling have been virtually eliminated; handling time has been reduced by as much as 90 per cent; utility of the company's existing warehouse space has been more than doubled.

The coil tilter eliminates the use of conventional lifting tongs, floor mounted tilting devices and "C" hooks for handling coils weighing up to 5,000 pounds in production operations and warehousing.

♦ RALPH W. KINDLEY has been appointed controller for the Stromberg division of General Time Corp., Thomaston, it has been announced by John F. Carr, vice president and Stromberg general manager.

For the past five years Mr. Kindley has been controller for the Wright Line in Worcester, manufacturers of data processing accessory equipment. Prior to joining the Wright organization, he was budget director for Kaiser Metal Products, Inc., Bristol, Pa.

♦ SCHOLARSHIP awards totalling \$1,000 for the 1960-61 year have been announced by Rockbestos Wire & Cable Co., Division of Cerro de Pasco Corp., New Haven.

A first-year grant of \$500 was awarded to Robert H. Wilkinson, now a freshman at Boston College and son of Mr. and Mrs. Robert C. Wilkinson, Wallingford. His father is supervisor of the sales section at Rockbestos.

A one-year renewal of a \$500 Rockbestos scholarship previously granted was made to Virginia Charlotte, currently a freshman studying to be a medical secretary at the University of Connecticut. She is the daughter of Mr. and Mrs. Donald A. Charlotte, Branford. Her father is specification engineer at Rockbestos.

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♦ A CELEBRATION recognizing the 50th anniversary of Vocational Education in Connecticut has been planned for November 10, 11 and 12 at the J. M. Wright Vocational-Tech-nical School in Stamford.

To launch the celebration, the State Board of Education will hold a convocation on Thursday, November 10 at 2:30 P.M. On Friday and Saturday, November 11 and 12, there will be meetings under the auspices of the Connecticut Vocational Association. The Association includes instructors and administrators in vocational education and members from industry in Connecticut. Vocational educators from all the New England states, New York and New Jersey, as well as from other parts of the country, will attend these meetings. There will be exhibits from industry and education.

On Friday morning, November 11, a panel of leaders from industry, agriculture and business will discuss manpower training needs. On Saturday morning a general session will feature a nationally prominent speaker and citations will be given to Connecticut citizens in recognition of their interest and contributions to the development of industrial and vocational education in Connecticut.

♦ JAMES W. HOPPER has been named assistant to the president, according to an announcement by Jacob J. Jaeger, president of Pratt & Whitney Company, Incorporated, West Hartford.

Mr. Hopper joined the company in 1951 as a gage sales engineer, coming from Seth Thomas Clocks, a division of General Time Corporation, Thomaston, where he was a product engineer. In 1955 he was named gage application engineer, specializing in continuous gaging and automatic mill and machine control. Four years later he was made Washington representative, dealing with government business for Pratt & Whitney.

As assistant to the president, Mr. Hopper will be responsible for handling special projects and assignments coming directly from the president. In addition, he will still represent the company interests in Washington.

♦ THE AMERICAN Tube Bending Company's recently established Electronic Division, New Haven, has successfully shaped 3-1/8" Styroflex aluminum sheathed air dielectric coaxial cable meeting Space Technology Laboratories' specifications for a radio tracking assembly at the Air-Flow Kalse Field Station, Hilo, Hawaii.

The configuration enabled the use of unbroken cable running from transmitter to a 60' parabolic antenna on

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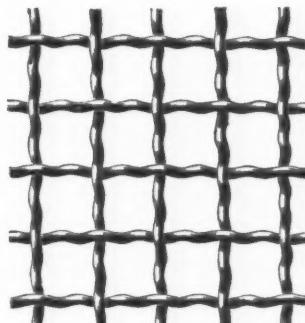
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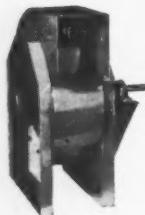


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top of the pedestal. This avoided interference with the elevating axis mechanism and resulted in a minimum of noise and static interference as the radio "ear" listens 50 million miles into space.

♦ USING A NEW, specially impregnated type of activated carbon, Dorex canister-type purification equipment, developed by Connor Engineering Corp., Danbury, is said to successfully remove troublesome hydrogen sulphide (H_2S), a gas previously impossible to control. The new carbon offers a retentivity of 30% for H_2S , compared with a previous low of 3%.

Thoroughly tested and proved, this new development has wide industrial application and is of particular advantage to paper mills, metal working plants which use cutting oil, various industrial laboratories, rayon plants, petroleum refineries, and tanneries.

♦ ELECTION of William C. Heard to the post of vice president, sales, for the Capewell Manufacturing Company, Hartford, has been announced by Staunton Williams, president. In his new position, Mr. Heard will be responsible for the overall sales promotion and planning for Capewell's complete line of industrial supplies including all metal cutting hacksaws, power saws and band saws.

He will also supervise the sales of Capewell's new line of saws manufactured from the recently developed alloy, L-100-M. In addition, Mr. Heard will continue in his present responsibility of direction of the company's national sales engineering staff.

♦ TOOLCRAFT Engineering, Inc. is the new name of The Diecraft Engineering Company, Waterbury, it has been announced by Robert E. Anderson, president.

Mr. Anderson stated that no change in management has taken place.

♦ AN EIGHT-PAGE folder (Bulletin No. 4) illustrating examples of the atomic reactor components recently produced by the Herrick & Cowell Company, North Haven, has been announced.

The folder illustrates graphite reflectors, instrument cans, storage racks, pool sumps, shielding plug assemblies and reactor fuel handling tools and briefly describes their construction. It also illustrates several examples of custom-built machinery, contract machining and precision Bullard work, which the company does. Copies are available from the company.

♦ VIGOROUS GROWTH of the state's power industry, with \$300 million spending in the next five years, was pledged by spokesmen for the state's utility companies at a recent news conference.

At the same time they acknowledged the need for a heavy flow of investment funds and emphasized that new power developments, including nuclear, will come gradually and not make present equipment obsolete.

Spokesmen were officers of the three top electric utilities of the state, addressing a news conference at the Hartford Club attended by some 200 persons including press and radio representatives. The speakers were William J. Cooper, president of the United Illuminating Company; Sherman R. Knapp, president of the Connecticut Light & Power Co.; C. L. Derrick, vice president of Hartford Electric Light Company and Austin, D. Barney, HELCO chairman of the board.

Mr. Cooper, speaking for the three companies, said "we expect to construct and put into operation about 870,000 kilowatts of new capacity from 1960 through 1965. To install these units and build our facilities . . . we plan to spend over \$300 million for plant and property."



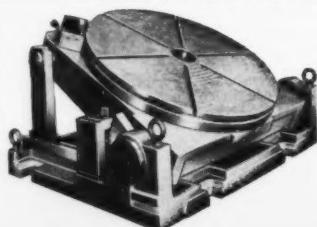
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Mr. Derrick reviewed New England's power needs for the coming 20 years and said that work at the atomic electric plant at Rowe, Mass. is now going forward at an accelerated pace. Electric power should be flowing in the lines of New England utilities early this fall, he said.

Mr. Knapp predicted that during the next 20 years more than \$143 billion will be required to supply expanded power supply systems. "We believe," he said, "that the investing public which consists of the individual investor, insurance companies, pension funds, mutual funds, etc. will continue to provide the capital."

♦ THE "SATELLITE" system of dictating, a compact control center the size of a microphone, which eliminates the need for having a dictating machine on the businessman's desk, has been introduced by the Sound-Scriber Corporation, North Haven.

The "Satellite," incorporating a single pushbutton to handle all dictating activities, is the hub of the company's new "Communicator" line. With the Satellite—a microphone and cradle—businessmen can dictate without having to handle the recorder, discs, indexing, and other mechanical functions. In addition, up to five Satellites can operate remotely from the same recorder, thus enabling personnel with lighter dictating loads to share in a central system.

♦ THE EASTERN Steel and Metal Company of West Haven, has devised a novel way of introducing a new product to its customers—print a news release on the product.

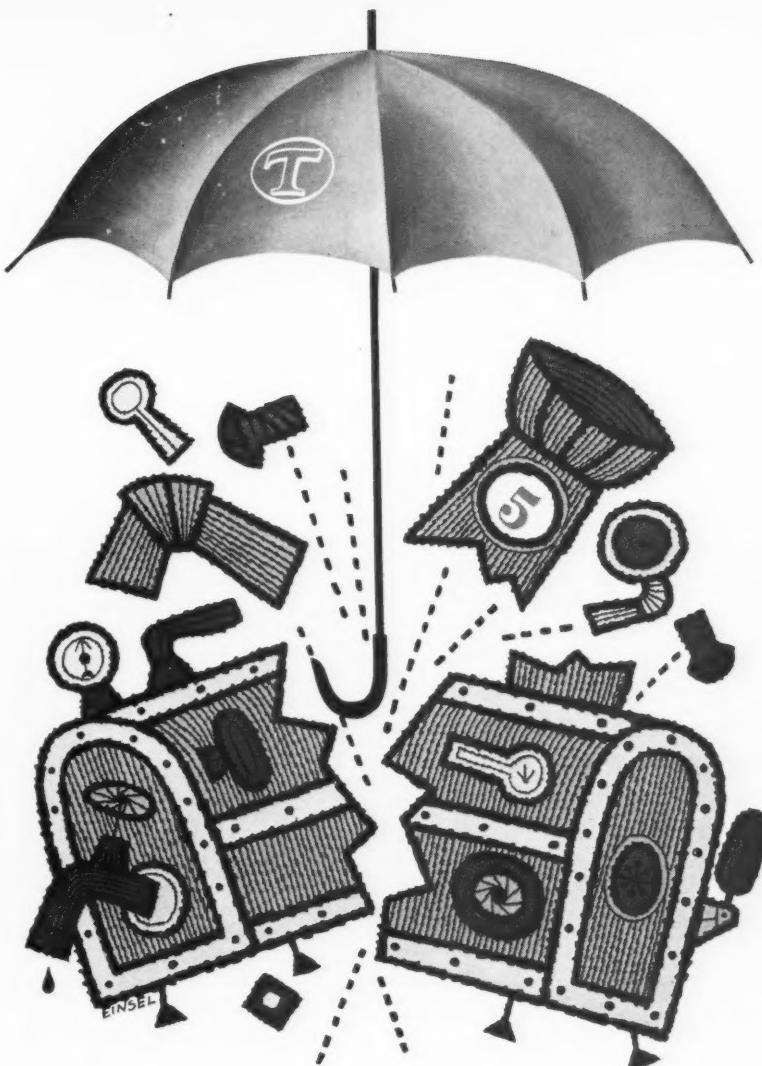
The West Haven firm introduced Revere's new Enamelled Color-Clad Aluminum Sheet by printing its regular monthly news release on it and sending copies to all its customers.

Eastern Steel also used the "aluminized newspaper" to announce its enlarged warehouse facilities, to make way for its expanded aluminum operations.

Founded in 1933, Eastern Steel has grown since that time into one of the larger strip and sheet steel and aluminum warehouses in southern New England.

♦ THE APPOINTMENT of Robert P. Lee, area development manager of The Connecticut Light and Power Company, as assistant to Paul V. Hayden, vice president in charge of public and employee relations, has been announced.

Mr. Lee joined CL&P in 1927. He was graduated from Lehigh University in 1933 with a degree of Bachelor of Science in Electrical Engineering.



WHAT HAPPENS WHEN NO. 5 BLOWS ITS STACK?

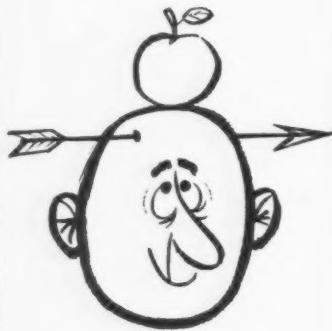
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He returned to the company in 1936 and remained until 1942 when he became superintendent of the Waterbury Buckle Company in Waterbury. He rejoined CL&P in 1951 as an industrial sales engineer and since 1952 has served as area development manager.

Active on many utility committees, Mr. Lee is chairman of the area development committee of the Edison Electric Institute, and a past chairman of the industrial development committee of the New England Council, as well as a member of the board of directors of the American Industrial Development Council.

♦ A GROWING shortage of executives has touched off a major new effort by corporations to develop their own management talent. This is evident from a survey by *Industrial Relations News*, a weekly newsletter for the industrial relations—personnel field, published in New York.

The survey indicates that 36% of U.S. corporations have formal management development programs, with two-thirds of these set up in the last three years. Some 27% are either on the verge of installing similar programs or plan to formalize their procedures in the near future.

A good many of the new management development programs are being set up on a highly individualized basis, IRN reports. They are geared to the company's present and future management needs, and the individual's specific growth requirements. This, the report states, would tend to "de-emphasize" the use of standard package training courses in specific supervisory skills, such as communications, organizational planning, and delegation.

♦ A NEW DATA CHART (Sec. F, No. 7) which covers the dimensions and weights of steel pipe has been announced by Peter A. Frasse & Co.,

Inc. Fourteen different schedules are shown—sizes range from $1/8$ " P.S. to $30'$ P.S. Stainless pipe users will find it helpful, for where the wall thickness specified for stainless pipe differs from that of carbon pipe, the data for stainless pipe is shown.

A table showing the capacity of round tanks in diameters up to $32' 9"$ is provided, plus an explanation for determining the capacity of larger tanks. Formulas for calculating capacities of rectangular and elliptical tanks are also included.

Copies may be obtained from the company, P.O. Box 1949, Hartford 1, Conn.

Family Day at Veeder Root

(Continued from page 11)

Employees, Departments and Operations Identified

Each Veeder-Root employee was identified with a name card. Each department and operation along the route was identified with an appropriate sign. The company's employee benefits, called Veeder-Root "extras," were dramatically portrayed along the way. Displays in various departments showed the components being handled, or assembled, and in the basement area several displays showed Veeder-Root products. Some showed how these products function in such devices as gasoline pumps which use Veeder-Root counters to compute dollars as well as gallons pumped.

Upon arrival, each visitor was greeted personally by employee hosts and hostesses, and given a welcome folder which showed the route of the tour through plant and offices. Every point of interest, a total of 158, was identified on a map. Along the way the route was carefully marked so employees' families and friends would not miss any part of the operations. Guides were also posted along the way to direct visitors and answer questions.



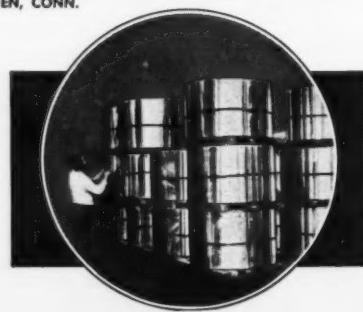
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Rest areas were located at convenient spots so people unaccustomed to walking could take time out to rest up for the balance of the tour.

Midway, a streamlined refreshment headquarters was located in the company cafeteria. Here guests were served coffee and soft drinks, and ice cream and cakes as they chatted about what they had seen, and what they were about to see.

All companies' offices were open for inspection, with company officers on hand to greet the employees' families and other guests.

In summarizing the modernization program, President Stauble said in his family day invitation letter to Veeder-Root people: "The important thing about these changes is that they are all improvements. They make our company better able to compete for orders, because we can produce better products more economically and provide better customer service. We all know the more orders we can get, the busier we will be. These changes make Veeder-Root a better place to work."

After family day, he thanked employees for their parts in the success of this event, and summarized by saying: "We really looked as good as we are."

Family days, according to Veeder-Root people, are not something which happen often, but they are very important as part of a full communications program, such as the one at Veeder-Root.

For several weeks following family day, according to Industrial Relations Director Luby, a number of job applicants mentioned that they had visited the plant, and wanted to work in "a nice place" like this. Letters flooded in from families and other guests commenting, all of them favorably, on their friendly reception and the clean, orderly arrangement of plant and offices. Said one youngster in a letter: "Dad told me it was a nice place to work and now I know it is even better than I thought it was. I told what I saw to the class."

A Hartford businessman wrote: "I was particularly impressed with the neatness and clean and shining appearance of your equipment and interior in general. I have been told by many that Veeder-Root is one of the finest companies to work for, and it is easy to understand why." Said another letter: "You are to be congratulated on your plant's orderly layout and efficient operation. I think, however, that we were more keenly interested and impressed by the friendly high class personnel and their obvious pride in showing us their plant and work, than in anything else."



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Boston

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March, 1960

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Taxation

By Charles H. Schreyer, Attorney

The States Battle For Taxes

Part I of an important story to be concluded in the August issue.

The federal government has not increased taxes since the Korean outbreak in 1950. During the same ten-year period, the states and local governments have raised their tax rates time and again and at the same time have invented an impressive array of new taxes. Despite the resulting tremendous increase in state and local tax revenues, the pressure for still more money continues unabated, so that the states have been very busy in casting about for new revenue sources.

As the tax burden on residents becomes heavier, however, the resistance of voting taxpayers to still higher impositions has stiffened to a formidable extent. This heightened resistance at home has inevitably led most of the state governments to look beyond their borders in efforts to replenish their coffers by taxing those who cannot show their resentment by reprisals in the voting booth.

There was a time when the ventures of states into this extra-territorial area were severely limited by the doctrine that no state can tax those outside its jurisdiction nor impose restrictions on the free flow of interstate commerce. In recent years, however, the changing personnel of the United States Supreme Court have displayed a more and more indulgent attitude towards states which look beyond their borders for tax resources.

Meanwhile, Congress for the most part has stood listlessly by without moving a hand to halt or slow this gradual encroachment into the interstate commerce field, a field which was entrusted by the constitution to the exclusive care of the federal government. Indeed, this inertia on the part of Congress has been pointedly remarked by the Supreme Court in case after case. Many opinions of that Court strongly imply that, not the Court, but Congress is the one to draw the line beyond which the states may not go, if such a line is to be drawn.

One of the earliest cases which marked the more lenient attitude of the Court is the *General Trading* case, decided in 1944. In that case, the Court for the first time held that a

state could require an out-of-state seller to act as tax collector of a use tax imposed on buyers within the state, if the seller sent salesmen into the state to solicit business. This case was extremely disquieting to thoughtful observers who saw beyond the door which it opened, but for two reasons the full impact of the decision was not at first generally felt.

First, retail sales and use taxes were a relatively new thing in 1944, so that enforcement techniques to take effectual advantage of the decision had not yet been developed. Indeed, there is serious doubt that even the more advanced enforcement methods of today are effectual, in the crucial test of whether they succeed in bringing in significant additional revenue beyond enforcement costs as to justify their

use. Some state tax administrators stoutly claim that they do, but over the past sixteen years, not one of them, to our knowledge, has been able to prove this.

In the second place, the *General Trading* case was discounted by some who reasoned that, after all, the decision did not sanction the imposition of a tax upon a person beyond the borders of the taxing state. The tax was imposed on the buyer within the state, and the case merely held that the out-of-state seller should help in its collection.

The march of events soon demonstrated that the worst fears of the most pessimistic were not without foundation. In 1946, two years after the *General Trading* case, the Supreme Court in a nine-word decision in the *West Publishing Co.* case upheld a decision of the California Supreme Court that that state could impose its corporation income tax upon an out-of-state corporation whose predominant, if not only, activities in California consisted of the solicitation of interstate business.

The cryptic opinion in the *West Publishing Co.* case opened an era of extreme doubt and uncertainty, an era which was marked by a tug-of-war between states which sought to im-



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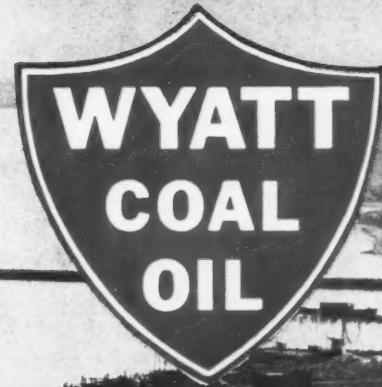
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pose their income tax upon out-of-state corporations, and a great many corporations whose officers refused to believe that the *West Publishing* case sanctioned the right of a state to tax the income of an out-of-state corporation where the *only* activities in the taxing state were the solicitation of interstate business. They reasoned that in the California case, representatives of the corporation in California had conducted a variety of activities which were not directly related to the solicitation of interstate business and that, perhaps, the Supreme Court had upheld the right of California to tax because of such additional local activities.

This was a particularly unhappy time for corporation tax people who found themselves engaged in a series of inconclusive duels with a growing list of states which enacted tax laws on the California model and insisted upon compliance by out-of-state corporations doing only an interstate business in the taxing state.

Sometime in 1955 or 1956, the business community decided that the growing pressure was becoming intolerable, and that a court decision should be sought which would dispel the uncertainty. Accordingly, about that time the Stockham Valves Co., an Alabama corporation, began a court action challenging the right of the state of Georgia to impose its corporation income tax upon an out-of-state corporation whose only activities in Georgia consisted of the maintenance of a sales office from which salesmen solicited orders from Georgia customers which were approved or refused at the home office in Alabama, and, if approved, were filled by interstate shipment from Alabama directly to the Georgia customers. Coincidentally, the same issue was raised by the Northwestern Portland Cement Co., an Iowa corporation, which challenged the right of the state of Minnesota to impose its corporation income tax upon an out-of-state corporation in the same circumstances.

The uncertainty on the question was confounded when the Supreme Courts of Georgia and Minnesota reached exactly opposite conclusions as to the constitutional right of a state to tax the out-of-state corporation. The Georgia Supreme Court held that the interstate commerce and the due process clauses of the United States constitution forbade the state of Georgia to tax Stockham Valves, while the Minnesota Supreme Court found to the contrary. Both cases were appealed to the U. S. Supreme Court about the same time, and both were argued and decided together.

In its decision handed down on February 24, 1959, the Supreme Court

unreservedly upheld the right of a state to tax an out-of-state corporation maintaining a sales office in the taxing state, even though the corporation's sole activities in that state consisted of interstate commerce, provided the tax was levied on only that portion of the corporation's income which was fairly attributable to business in the taxing state, and there was no discrimination between the method of taxing such corporations and others.

However, the decision of the Supreme Court was so broad as to seem to sanction the imposition of a tax on interstate business even in cases where no office or place of business is maintained in the taxing state. The court said that all that was necessary to sustain the tax is that the activities in the taxing state should form "sufficient nexus to support" the tax.

This language sent thousands of lawyers scurrying to their dictionaries, but aside from learning that "nexus" means connection, tie or link, they found themselves completely in the dark on the answers to such critical questions as whether the Court would find that sufficient "nexus" to support a tax exists where an out-of-state corporation has no connection with the taxing state except the employment of traveling salesmen or the use of independent sales representatives to solicit orders for interstate shipments. In other words, the Court had removed one area of doubt, only to replace it with a much broader one.

In this department next month, we will discuss the steps taken by leaders of the business community to halt the juggernaut of indiscriminate multiple state taxation which would inevitably bear down upon them as a result of this decision, unless something was done to check its advance. We will also discuss the ominous developments in this area which have occurred since the Court's decision in the *Stockham Valves* and *Northwestern* cases was handed down.

Jobs For The Handicapped—Passports To Dignity

(Continued from page 14)

insurance rates if they hire the handicapped. The committee also found that "There is no significant difference between the voluntary quit rate of impaired workers and other workers. Impaired and unimpaired workers have about the same absenteeism records." The final statement of the report reiterates the fact that "The handicapped have the same wide range of skills, abilities, and interests as the non-handicapped."¹⁶ The handicapped are thus proven to be able and willing to work.

Work, the producing of something with the hands or mind, is necessary to human existence, not only from a material, but also from an emotional and mental standpoint. Man was created to till the soil,⁷ and commanded to earn his living in the "sweat of his face."⁸ Mankind has never been able to live at ease for long. Dependence upon another causes a sense of shame in a man—self-shame. When that man can work, and do a job well, he gains a feeling of dignity, a feeling that he is worthy of life.

The employer, too, benefits from the hiring of the physically handicapped. In the face of facts proving that he has nothing to lose financially by employing impaired workers, the only major reason left is that of prejudices and discrimination. We here in the North are shocked at the Southerners' racial prejudices, and preach against religious discrimination, but we are not entirely without fault ourselves. Those who wish to be truly God-like make no difference between persons. "Ye shall not respect persons in judgement; but ye shall hear the small as well as the great."⁹ Is there no difference between a man with an artificial hand and a man who is physically perfect? Is there no difference between a woman who has a record of tuberculosis and one who has "never been sick a day in her life"? Is there no difference between the boy with the twisted legs and the one who stands so straight? No, there is no difference: no difference as far as the ability and interest to work is concerned, no difference in proneness to accidents, no difference in reliability. When he realizes this, an employer elevates himself. By conquering prejudices, man also elevates himself to a new level of dignity in the eyes of others. There are always those who point and frown at one who does "unusual" things. These are the people who oppose minor reforms and changes in government and education, the ones who dislike modern art and progressive jazz because they are new things. But there are many more people who rejoice that someone had the courage to lead a movement that they speedily join. So often people talk about this and that reform, and say it should be done, but they are never willing to start it.

Dignity, then, is gained on both sides. The employee finds labor even more important to his soul than to his stomach. The employer finds he has gained new status in the community, and new pride in himself. Hiring the handicapped is never one-sided.

⁶"Key to Independence"
⁷Genesis 2:15
⁸Genesis 3:19
⁹Deuteronomy 1:17

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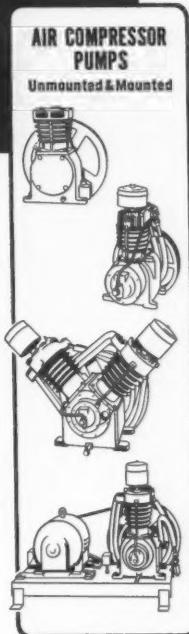
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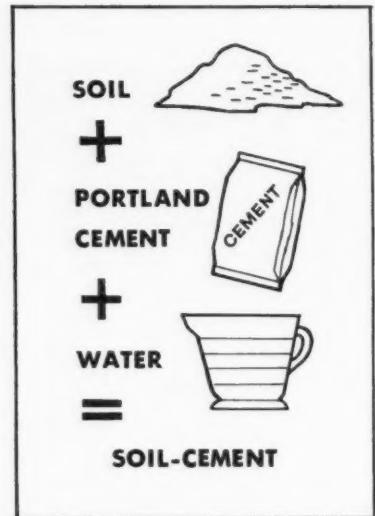
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Public Relations

By Charles E. Reiche
Public Relations Director

P R Planning and Budgeting

♦ OF all the trades and professions, public relations is one which is subject more than most to second-guessing. A curious item but one recognized long since by PR operatives as a fact of business life.

Presumably it stems from the belief in their own personal or public relationships which successful management men develop as they climb the corporate organization chart. Although top management quite generally tells middle management what it needs and expects from them and then turns them loose, public relations seems to be an area in which all hands feel a measure of competence, or at least have a definite and individual approach.

This undoubtedly derives from each individual's own reaction to a news item or a statement made by someone else. If the item strikes the reader favorably or unfavorably he instinctively feels it will develop the same reaction in other readers or listeners. And who can say he is wrong?

However, trained PR people believe their experience and training gives them a better insight into the reaction of the majority of readers, even though they admit the reactions will not necessarily be uniform or identical. And since it is the effect on the greatest number which is the measuring stick, successful public relations people develop an "objective reaction" personality in creating or analyzing their work.

When we turn to the necessity of budgeting public relations in industry we find that management is completely lost. In fairness, it should be added that the same statement more often than not applies to the PR director. But there is a reason for this situation.

By its nature, public relations is one of the most inexact sciences of all. Couple that with the fact that budget-making itself is fraught with exasperating guesswork and other intangibles and it's no wonder that tough-minded and practical management men regard a PR budget pro-

posal as a fog-shrouded course in sorcery.

Accepted standards of budgeting are likely to be discarded in a hurry when we tackle a PR budget. To begin with, the fact that Zeugma Inc. spent \$15,000 on PR in 1960 has little or no connection with what it may spend in 1961. In 1961 Zeugma Inc. may hold a family open-house or dedicate a new research laboratory. Either of these projects by themselves can easily eat up \$15,000 and more.

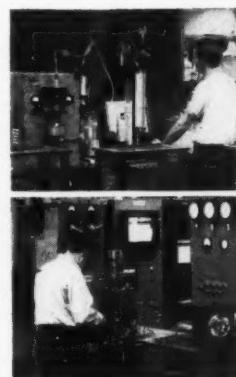
Briefly, then, aside from your basic PR department administrative costs—salaries, travel and other funda-

mentals—you cannot base a PR budget for one year on what you have done in past years.

Part of the answer—but only part—to the development of a realistic PR budget lies in the skill with which you plan your PR program plus your flexibility in allowing for emergencies. This flexibility is very important and can make the difference between getting through a fiscal year without ulcers, or having the situation deteriorate into a thorough shambles. The key to this flexibility is your ability to make management see that contingency cash must be available when, as and if the PR operation of the company needs it.

Generally speaking (and with good luck on your side), you can plan in advance 90 per cent or more of the projects you will undertake in a given year and thus provide for them in your PR budget. It is most unlikely, for example, that your company will come up with a new and unexpected scholarship program without substantial prior planning and warning, or that your firm will go into an involved and expensive community relations operation on the spur of the moment.

Thus when you prepare your budget you should list A, B, C and so on as what you propose to do in the coming fiscal year and what you anticipate



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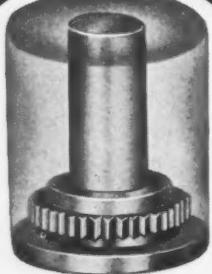
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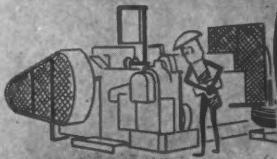
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each item will cost. With many of your proposed projects you can come very close to what the cost will be. Either you have done things like them before or you know people in your area who have done them who will give you a firm idea of what the costs will run.

There will probably be new projects which you want to undertake and for which you have no gage for measuring costs. To the extent you can, you should break down the elements of such projects and try to reach a sound cost estimate by adding up what you think the costs of all the elements will be.

You can reach an educated guess, for example, on printing costs, paid advertising space and time, if that is called for, extraordinary out-of-pocket expenses which may be involved, entertainment and so on and on through whatever the range of the project. When the bills are finally paid, you may discover your original estimate was unsound by as much as 50 per cent, one way or another. But that merely underlines the fact we acknowledge to begin with: that PR is not an exact science.

We hope what has been said above is not to be construed as applying only to our large industries. Public relations, as has been said over and over and over, is something we *all* have, whether we want it or not. If you're a three-man shop in Cornwall, you have public relations. You have your employes, you have your customers, you have your neighbors, you have your suppliers. These are all publics. You may, without realizing it, spend \$500 a year in one way or another on these publics. You may wine and dine a customer, you may contribute parts and labor to the diving float at the town swimming pool, you may give your two-man staff a Christmas bonus or a dinner party.

Whatever it is you do for others, you are running a PR program, whether or not you think of it in those terms. Thus it will be wisest for you to determine each year when you make up your whole budget to give thought to what you will include as public relations expenditures. But even in the three-man shop in Cornwall, you may well find that after you have used up your \$500 PR budget—although you may call it something else—you will have to spend another \$100 for a community emergency or aid to a supplier before your fiscal year is over. It's things like this which make PR an inexact science. But with a plan to begin with you can budget your PR needs reasonably accurately, whether you're in Cornwall or Detroit.

Business Tips

Standardization—An Effective Tool of Purchasing Management

By T. K. Lindsay
School of Business Administration
University of Connecticut

Introduction

♦ STANDARDIZATION often provides the answer for the purchasing executive in his search for maximum value and right quality in selecting materials and products. He can often utilize standardization to obtain such value and quality without incurring unnecessary costs and without engaging in lengthy negotiation. Reliable studies show: (1) that many manufacturing enterprises spend in excess of 50 per cent of their sales dollar for purchased items, and (2) that a 10 per cent reduction in the cost of these materials will frequently yield the profit equivalent of a doubled sales volume or as much as a 100 per cent increase in net operating profits. Standardization is one of the important cost-reduction tools commonly used to achieve impressive buying economies. The purchasing group generally has a key assignment in any standardization program regardless of the size of the manufacturer.

Meaning of Standardization, Standards, and Simplification

Standardization is generally referred to as the process of establishing an agreement upon such things as definite quality, size, type, model, design, grade, brand, and procedure. The thing standardized or the established agreement becomes the standard. Simplification is the process of reducing unnecessary varieties as regards quality, size, type, and the like. A sharp distinction may be theoretically drawn between standardization and simplification, while in practice simplification is usually an essential part of a standardization program. Today, an effective standardization program involves the utilization of the simplification process, as well as value analysis techniques.

Where May Standardization be Successfully Applied

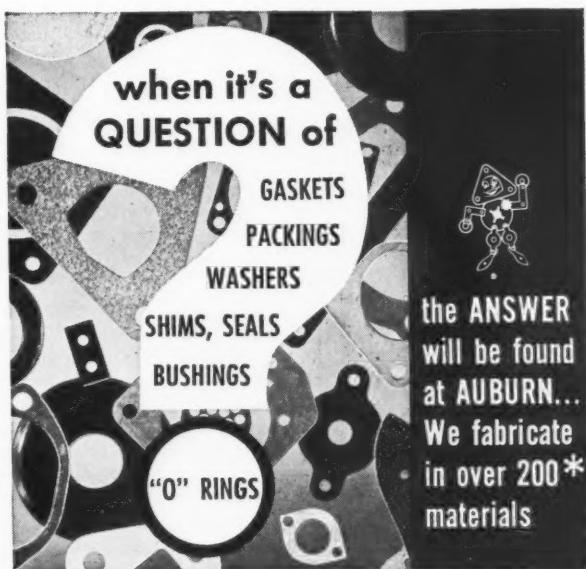
Although standardization has been

effectively applied in manufacturing, engineering, marketing, storekeeping, and in other general operations of companies, the main focus of this article is on the purchasing function in manufacturing enterprises. Some of the more fruitful areas for the application of standardization include:

1. Stocking larger quantities of fewer varieties.
2. Economic ordering quantities.
3. Increasing flexibility of inventory.
4. Reducing lead and procurement time.

5. Reducing negotiations arising from misunderstandings in ordering description.
6. Reducing loss from scrap and obsolescence.
7. Decreasing paper work in ordering items.
8. Developing broader competition among suppliers.
9. Achieving lower prices.
10. Promoting interchangeability.
11. Improving availability and delivery of materials.
12. Reducing the ordering of specials.

Certain analyses indicate that in most companies, the placing of an order for standard materials costs only about 1/4 to 1/3 as much as placing an order for non-standard items. One company has estimated that it has obtained eight dollars in savings for every dollar invested in standardization. Another company has indicated that one dollar saved in buying materials and services creates the same profit before taxes as does five dollars of additional sales. A manufacturer has reportedly reduced its threaded hardware from 24,000 to 315 items and obtained accompanying economies amounting to \$250,000. Many other examples of dramatic savings which



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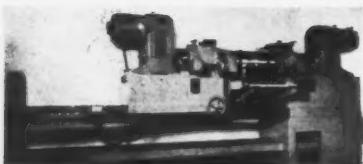
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have been secured by standardization are too numerous to recapitulate in this article. It should be pointed out that the exact amounts saved through standardization are extremely difficult to measure.

The purchasing agent is at the focal point where his company's money is being spent. He occupies a key position for generating interest in standardization and for reducing unnecessary variety by advocating proper simplification. He is involved not only in the exchange of money for goods and services, but he creates good will for his company. This description of the role of the purchasing agent is not intended to imply that other company executives do not play an important part in standardization. A successful standardization program requires the coordination of the efforts of all pertinent personnel.

Suggestions for Establishing a Standardization Program

The approaches involved in the establishment of a standardization program will vary with each company in accordance with its size, organization, and operations. In formulating a standardization program, the purchasing agent can obtain much valuable information from a publication entitled, STANDARDIZATION MANUAL, Revised Edition, which is published by the National Association of Purchasing Agents, 11 Park Place, New York, New York. The standardization program which is herein suggested has been formulated according to certain instructions contained in the foregoing manual. Although each company should formulate its individual standardization problem, experience has shown that some steps are probably common to most enterprises. These steps include:

- Analyze the purchasing function to ascertain the status of standardization. The amount of money spent for purchased items should be determined as well as how effectively the money is spent. An analysis of purchase orders may help furnish the clue as to what proportions of purchased items have been or should be standardized. Look particularly for unnecessary variety and duplications of the items ordered by determining how much of the same material has been purchased by using different specifications for similar requirements. Concentrate on those materials and supplies on which a significant amount of money has been expended and on which standardization may reduce costs and confusion. Many companies have initiated a standardization program by first concentrating on an analysis of MRO items such as lubricants, packing,

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2. Obtain the support of top-management. The success of any standardization program is largely dependent upon the degree of support given by top-management. The purchasing agent has excellent opportunities for showing management the need of standardization. He has available a considerable amount of tangible statistics showing the effectiveness of standardization in the form of inventory turnover data, machine downtime owing to lack of materials, cost of non-standard material, among others. To convince management of the need for standardization, these statistics should be presented in terms of dollars-and-cents. A formal letter or directive which signifies management's support and which is sent to all interested groups is generally effective in publicizing the standardization program, its objectives, and its expected accomplishments.

3. Prevail on top-management to appoint a standards committee. This committee should be composed of representatives from top-management, purchasing, engineering, design, manufacturing, stores, research, and pertinent using departments. Ideally, in small companies, a person from the top-management group or the second ranking executive should be the chairman. In larger companies, the departmental representatives from engineering, standards, or purchasing may effectively serve as the chairman. Some companies have a rotating chairman to secure wider participation and interest in the program. The standards committee should survey all areas of company operations and apply standardization techniques to the more obvious areas where significant dollar-savings can be quickly realized.

4. Establish policies and define long-term and short-term goals. Top-management has the responsibility of establishing policies which will define various goals or objectives. Such goals should be related to the analysis performed in step 1 of this standardization program. Insofar as practicable, the primary goals of standardization should include: (1) saving on costs, (2) improving the service of supply, (3) routinizing previously-solved problems, (4) eliminating the need for new decisions, (5) simplifying operations, (6) insuring uniformity of quality, and (7) using previously-developed industry and national standards. Some companies compile a list indicating various areas of potential savings with appropriate timetables for completion dates. Frequently, standard stock catalogs or other similar reference guides are particularly helpful in attaining the goals

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of standardization. Educational programs are also helpful in securing the co-operation of personnel affected by standardization programs.

5. Assign responsibility for the standardization program. Responsibility for the standardization program should be delegated to one person who is responsible for heading the entire standardization program as well as integrating the various activities which are relevant to its success. Such a person should be one who is familiar with the various aspects of the company's operations.

6. Obtain company-wide participation. Sub-committees may be utilized to obtain wider participation of company personnel. These sub-committees will very likely be composed of persons with other primary functions, but who are selected because of their qualifications and interests in standardization. Each sub-committee may be assigned one class of material for review and study. Increased participation may also be achieved by making standardization procedures known through newsletters, instructions, bulletins and reports. Better participation can be secured if the standardization program is continuing, deliberate, and organized. If dramatic results are publicized, a contagion may develop which will induce other persons to become interested in a standardization program. Awards for successful standardization ideas may also stimulate increased interest in the program. Wider participation may be obtained by facilitating the use of standards. As mentioned in step 4, a standards catalog has often proved of value in securing participation from almost every using department of the company. The format of this catalog should be conducive to use by having adequate indexing, by keeping it as

brief as possible, and by making provisions for changes or additions.

7. Measure the results of the standardization program. Management should appraise the standardization program to determine whether the cost of the program has been worthwhile. Expenditures of effort and money should be compared to any savings in purchasing activities. The measurement of the results of a standardization program is a complex task. It is not too difficult to obtain cost-saving data for many direct and indirect materials with respect to savings of product-costs, quality, and quantity; however, it is particularly difficult to evaluate the impact of a standardization program on the business or on the long-run profits of the firm. Whenever possible, the standardization program should be appraised in terms of dollars and cents savings.

8. Sources of information on standardization. In general, the purchasing agent may obtain information about standardization from (1) his own company's studies and analyses of purchasing, (2) private agencies—including vendors, users, trade associations, and professional societies, and (3) government agencies. One of the most valuable sources of information is the American Standards Association, 70 East 45 Street, New York, New York. This association is composed of approximately 100 member bodies including the National Association of Purchasing Agents. The previously mentioned NAPA Standardization Manual contains most of the pertinent sources of information on standardization which would be extremely useful to the purchasing agent. In addition, this manual contains an extensive list of publications written on the subject of standardization from the point of the purchasing executive.

Conclusion

Like any other managerial tool, standardization is not intended to be a panacea. If properly utilized, standardization can become a shorthand means of communication between a buyer and seller with mutual benefits to both. These benefits often take the form of dramatic cost reductions. On the other hand, if carried beyond the point of diminishing returns, standardization can become too costly and yield an adverse impact on the business enterprises. The purchasing agent plays a major part in any standardization problem and can achieve savings or losses, according to the manner in which he applies standardization.

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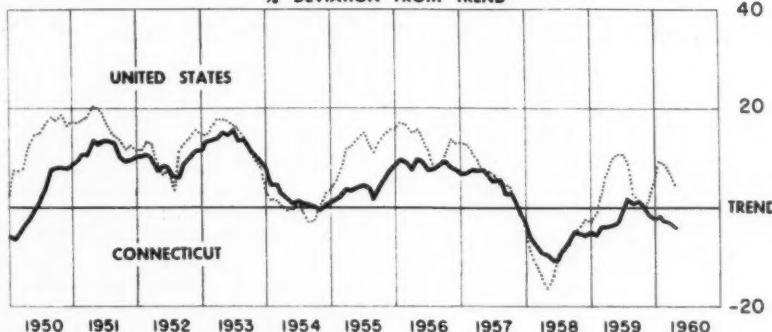
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Business Pattern

A comprehensive summary of the ups and downs of industrial activity in Connecticut for the thirty day period ending on the 15th day of the second previous month.

State and National Business Lower

INDUSTRIAL ACTIVITY - CONNECTICUT vs. UNITED STATES
% DEVIATION FROM TREND



♦ THE Connecticut Index of Industrial Activity declined almost a full percentage point in April to—4.0%. With better weather, construction employment moved up somewhat from last month. However, declines in manufacturing employment, average hours worked and electric power sales were enough to pull down the combined Index.

The United States Index fell 2.5 percentage points as steel production continued to decline.

The present situation nationally, though still mixed, appears to have settled somewhat in recent weeks. While steel output continues to decline, other indications are more favorable. Personal income and employment rose strongly in April and industrial production, as measured by the Federal Reserve Board, held level after two months of decline. Automobile production in May was up.

Unemployment

In April, better weather helped bring about a falloff in unemployment both in Connecticut and the United States as a whole. A pickup in construction activity brought a moderate cut in this state's jobless total. Increases in construction and retail trade contributed to a substantial unemployment drop nationally.

Connecticut jobless in April totaled 60,800 which was 5.7% of the labor force. A year ago, our ratio was 6.9% and in April 1958 it stood at 9.1%.

ployment with one and two years ago are generally favorable, there is still a high level of joblessness. Both the Connecticut and United States rates remain substantially higher than they were before the 1957-58 business decline.

Building

Total building contract awards were up slightly in the first quarter of 1960. Nonresidential contracts bettered the first three months of 1959 but were below the same period of 1957 and 1958. Residential floor space awarded was the highest for any first quarter since 1956.

The local strength in residential building was contrary to the national situation. For the United States as a whole, first quarter housing starts were down 17% from the same months of 1959. In Connecticut, the number of dwelling units contracted for was up 22%. This was the largest first quarter total in ten years and reflects the greater activity in apartment house construction.

Employment

The accompanying chart shows long-range changes in the manufacturing portion of non-farm employment. Connecticut is compared with nearby states and other highly industrialized areas.

The proportion of manufacturing employment has gone down since 1951 in all the areas shown. These declines reflect the continuing introduction of laborsaving machinery and methods as well as the loss of some industry to foreign countries and less industrialized states. A number of southern and western states, not charted, have shown increases since 1951.

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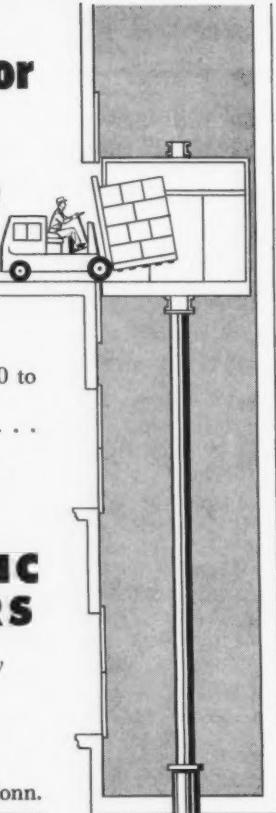


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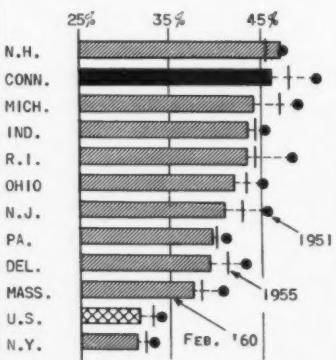
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Although the proportion of manufacturing employment has decreased, total non-farm employment has expanded. Retail and wholesale trade, the many service industries, and government employment have more than filled the gap left by the declines in manufacturing.

Gross National Product

The United States economy passed a milestone in the first quarter of this year. Gross National Product rose to an annual rate of \$500.2 billion, topping the half-trillion mark for the first time.

The first quarter increase in GNP totaled \$16.7 billion on an annual basis. Of this rise, inventory rebuilding after the steel strike accounted for almost \$8 billion. As the accompanying chart indicates, inventory changes contribute significantly to fluctuations in total output.

While inventories are not now excessive in relation to sales volumes, inventory accumulation will probably add little to GNP in the remainder of 1960. Thus business will not have heavy stocks to work off if sales should decrease.

Present expectations are that 1960 GNP will be around \$508 billion. This would represent a 6% increase over last year's \$479 billion.

The Importance of Scrap Control In Reducing Costs

(Continued from page 16)

procedures. All spoiled material should be sorted and classified on the basis of the ultimate disposition expected.

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Some may be reclaimed and returned to stores, some may be profitably re-worked into saleable products, and other portions will ultimately be disposed of as scrap. In deciding whether to rework or scrap, consideration should be given to cost and production requirements as well as to the condition of the material.

The procedures must provide physical control over quantities of scrap and other property leaving the plant. This is an area of control which is too frequently only marginal or even non-existent. All scrap should be weighed or measured in some manner at the time of its removal from the plant, and all disposals should be reported direct to the accounting department for control over billing and receipt of payment. In instances where it is necessary to use the purchaser's or public scales, the disposal system must provide a means of assuring that reported weights are proper. Control over disposals is usually more effective when the company premises are surrounded by fences and have attended exits. Under these conditions a gate pass procedure can be adopted utilizing weight tickets or other written authorizations which can be turned over to the accounting department and used as a check on scrap and other property disposals.

Dollar Realization

In addition to adequate physical control over scrap, the procedures established should emphasize the importance of and provide methods for obtaining maximum dollar realization. More dollars can be obtained from scrap that is properly classified and segregated by basic material content and is relatively free of contamination. There is a large variety of specialized equipment for reclaiming and conditioning scrap, such as pressing and baling machines, centrifugal machines for removing contamination, etc.—all of which can help add to the sales realization value. However, the relationship of sales value to handling costs must not be overlooked.

Every means of using the rejected materials should be considered in order to avoid dollar loss through the sale of good, usable materials as scrap. On the other hand, no rework should be authorized without first considering production requirements and relating the rework costs to realizable values. There is always a possibility that rework cost when added to costs already incurred may exceed the product value recovered. In other words, more profit may be realizable or less loss incurred if the defective item is sold as a second or scrapped.

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ceiving the highest possible prices for its scrap, it is essential that relatively frequent competitive bids be obtained from appropriate, qualified scrap dealers. Consideration should also be given to the possibility that the vendor from whom the material was originally purchased might offer a better price than a scrap dealer. In any instances where scrap has resulted from existing defects in purchased materials, every effort should be made to obtain full credit from the vendor.

Trash and waste disposal, as distinguished from the sale of scrap, should also be contracted after competitive bidding. However, realization of cost savings in this area must, by and large, come from control of the amount of waste since waste usually has little residual value. In this connection, a specialist in the business forms industry recently estimated that about half of the dollars spent on paper work in business is wasted due to inefficient use, design and duplication.

Summary

Protection against losses arising from scrap, spoilage and rework must, for the most part, be provided through the company's accounting procedures and controls. The recognition of individual responsibilities and the co-ordinated efforts of all departments in a constant study of the causes of scrap and waste can do much in eliminating the causes and reducing this costly expense. A review of scrap procedures and controls by an alert person who is reasonably familiar with the industry and the company's own production processes may well present many opportunities for dollar savings. The old adage "a dollar saved is a dollar earned" was probably introduced before income taxes, but it is still true for a "dollar saved" by a company is as good as any other dollar earned.

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Spotlight on the Future

Contributed by National Association of Purchasing Agents
By Chester F. Ogden, Manager of Purchases
The Detroit Edison Company

General Business Conditions

♦ THE year 1960 looked better in 1959 than it does after five months of 1960. This, in itself, is no startling pronouncement, because few would argue this point. It is significant, however, that a large group—39%—of our members report that, to date, 1960 has completely measured up to their expectations. A small minority of 8% say it actually exceeded their expectations, and 53% say that it failed to meet their earlier predictions.

In view of the diminishing optimism about current business conditions, the critical question is "what is the trend likely to be for the balance of 1960?" Our members do not look for any serious slump. In fact, 47% believe the second half of 1960 will be better than the first half, 39% see no change, and only 14% predict it will be worse.

However, this improvement will evidently have to occur without the benefit of any inventory build-up program, for 36% of our members say they have definite plans to further reduce their inventories. Only 6% state that they will increase their stocks on hand.

In looking at this month's statistics,

we find that both production and new orders have deteriorated in the last 30 days. Only 18% of our members say their production has increased, while 22% report reductions. Not since the Spring of 1958 have our production figures been so bearish. The new order situation has also worsened in the last month, with 24% reporting improvement, 49% no change, and 27% a reduction.

The employment figures continue to be depressing, with the number of members reporting fewer employees more than twice as many as those who tell of additions to their work force.

Over-all prices continue to be stable; but, there are more and more instances of competitive situations that result in discounts from so-called "book prices."

Foreign competition is receiving greater recognition. There are some who strongly favor foreign buying, and others who violently oppose it; 12% of our members say foreign sources will become more important in their buying activity for the balance of this year, and 8% state they will reduce their purchases from abroad. The large majority—80%—do not plan to alter their present policy.

Caution is the watchword in buying policy. With the ready availability of all materials, Purchasing Executives

(Continued on page 64)

Composite opinion of purchasing agents who comprise the N.A.P.A. Business Survey Committee, whose Chairman is Chester F. Ogden, Vice President, The Detroit Edison Company, Detroit, Michigan.

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PRODUCTS AND SERVICES

THIS department, formerly listing only products made in Connecticut (from 1937 through 1959) is now available for listing not only products made in the state but also services available to industry through management, technical, research or other service organizations located in Connecticut.

Listing rate, \$6.00 per listing for 12 monthly insertions, effective with the February 1960 issue. Listings are payable annually, in advance, or within 30 days after their first insertion.

Abrasives	Aircraft Engine Timing Tools		
Fuller Merriam Company The (Vitrified, Resinoid Bonded Grinding Wheels & Segments)	Gabb Special Products Inc Windsor Locks		
West Haven			
Abrasive Adhesives	Aircraft Engine Details		
Seovil, Inc., D & H (for polishing metals, etc.)	American Standard Products, Inc. Hartford		
Higganum	Hartford Machine Screw Co Div of Standard Screw Co Hartford		
Absorbents	New Haven Trap Rock Co The Machine Products Div North Branford		
Nielsen & Sons Inc. John R. (oil water and grease)	Tag Alloy Welding & Mfg. Co., Inc. (weldments) Glastonbury		
South Windsor			
Accounting Forms	Aircraft Engines		
Baker-Goodyear Co The	Lycoming Division Avco Manufacturing Corp Stratford		
Hartford	Pratt & Whitney Aircraft Div United Aircraft Corp (aircraft) East Hartford		
Accounting Machine Cards	Aircraft Fasteners		
Connecticut Printers, Inc.	American Standard Products, Inc. Hartford		
Hartford	Hartford Machine Screw Co Div of Standard Screw Co Hartford		
Adding Machines	Seovil Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury		
Underwood Corporation			
Adhesives	Aircraft Instruments		
Polymer Industries Inc Springdale	Aeronautical Machinists, Inc. (servo mechanisms & pressure switches) Bridgeport		
Raybestos Division Raybestos-Manhattan Inc Bridgeport	Gorn Electric Company Inc Stamford		
	Lewis Engineering Co., The Naugatuck		
Advertising Mats	Aircraft Nuts		
Ads Inc Div CSW Plastic Types Inc (plates, services)	McMellon Bros., Inc. Bridgeport		
Lockwood Sons Inc Wm H			
Advertising Agencies	Aircraft—Repair & Overhaul		
Brunelle Co., The Charles Hartford	Airport Department Pratt & Whitney Aircraft Division		
Jarford Advertising Agency Durham	Rentschler Field East Hartford		
Langerle-Stevens, Inc. Orange			
Moore and Co., Inc. Stamford	Aircraft Studs & Bolts		
Robotham Co., The Edward W. (industrial) Westport	American Standard Products, Inc. Hartford		
Shenton Co., K. C. (industrial marketing) Hartford	Hartford Machine Screw Co Div of Standard Screw Co Hartford		
Advertising Plates	Aircraft Wire & Cable		
Lockwood Sons Inc Wm H	Lewis Engineering Co., The Naugatuck		
Advertising by Representation	Aircraft Test Equipment		
Hartz-Miller Associates	United Manufacturing Co Division of The W L Maxon Corp Hamden		
Air Compressors	Alumilite Aluminum Sheets		
Spencer Turbine Co The	Leed Co The H A Hamden		
Air-Conditioning	Aluminum Awnings		
Norwalk Airconditioning Corp South Norwalk	Norlee Aluminum Prod Corp Bloomfield		
Air Conditioning Contractors	Aluminum—Bar, Rod, Sheet, Plate		
Salmini Co., Inc., J. P.	Frasse & Co Inc Peter A Hartford		
Milford			
Air Conditioning Products	Aluminum Bronze Castings		
Dunham-Bush Inc	Knapp Foundry Company Inc Guilford		
West Hartford			
Air Ducts	Aluminum Castings		
Wiremold Co The (Retractable)	Eastern Malleable Iron Company The Naugatuck		
Hartford	Newton-New Haven Co West Haven		
Air Heaters—Direct Fired	Aluminum Die Castings		
Peabody Engineering Corporation	Mt Vernon Die Casting Corporation Stamford		
Stamford	Peasly Products, Inc. Stratford		
Air Impellers	Peerless Aluminum Foundry Co Inc (permanent mold) Bridgeport		
The Torrington Manufacturing Co. Torrington	Stewart Die Casting Div. Stewart-Warner Corp Bridgeport		
Air Cylinders	Aluminum Foil		
Cushman Chuck Co.	Republic Foil, Inc. Danbury		
Hartford			
Aircraft	Aluminum Forgings		
Sikorsky Aircraft Division United Aircraft Corporation (helicopters)	Consolidated Industries Inc West Cheshire		
Bridgeport	Scovill Manufacturing Company Waterbury		
Aircraft Accessories	Aluminum Ingots		
Chandler Evans Corporation (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek—Plug Dehydrator Agents)	Batchelder Co., Inc., Charles Lapides Metals Corp		
Bethel	Newtown New Haven		
Fenn Mfg Co The (Hardened and Ground Gear assemblies)	Peerless Aluminum Foundry Co., Inc. Bridgeport		
Newington	Peerless Aluminum Foundry Co., Inc. Bridgeport		
Gabb Special Products Inc (filler caps—pressure fuel servicing systems)	Bridgeport Deoxidized Bronze Corp Bridgeport		
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Peerless Aluminum Foundry Co., Inc. Bridgeport		
Windsor Locks			
Aircraft Accessory	Aluminum Sand Castings		
Chandler Evans Corporation (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek—Plug Dehydrator Agents)	Terriville Manufacturing Co (Stampings for automotive parts) Terriville		
Bethel			
Fenn Mfg Co The (Hardened and Ground Gear assemblies)	Eis Automotive Corp. (Hydraulic Power and Mechanical) Middletown		
Newington	Raybestos Division of Raybestos-Manhattan Inc (Brake Linings, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber)		
Gabb Special Products Inc (filler caps—pressure fuel servicing systems)	Terriville Manufacturing Co (Stampings for automotive parts) Terriville		
Windsor Locks			
Automotive Parts	Automobile Leasing		
Eis Automotive Corp. (Thermostat Div Robertshaw—Fulton Controls Co (automobile thermostats))	Motorlease Corporation, The West Hartford		
Milford			
Echlin Mfg Co The (Ignition & Brake)	Automotive Bodies		
Branford	Metropolitan Body Company Bridgeport		
Automotive Polishing and Buffing Equipment	Automobile Assembly Machines		
Packer Machine Company	Sperry Products Inc Danbury		
Automotive Tools	Automatic Control Instruments		
Eis Automotive Corp (Brake Tools) Middletown	Bristol Co The (temperature, pressure, flow humidity, time) Waterbury		
Automobiles—Children's	Automobiles—Children's		
Powercar Company	Powercar Company Mystic		
Automotive Bodies	Automobile Bodies		
Metropolitan Body Company	Metropolitan Body Company Bridgeport		
Automobile Leasing	Automobile Leasing		
Motorlease Corporation, The	Motorlease Corporation, The West Hartford		
Automotive Parts	Automotive Parts		
Bridgeport Thermoset Div Robertshaw—Fulton Controls Co (automobile thermostats)	Eis Automotive Corp. (Thermostat Div Robertshaw—Fulton Controls Co (automobile thermostats)) Milford		
Milford			
Echlin Mfg Co The (Ignition & Brake)	Echlin Mfg Co The (Ignition & Brake) Branford		
Branford			
Eis Automotive Corp. (Hydraulic Power and Mechanical)	Eis Automotive Corp. (Hydraulic Power and Mechanical) Middletown		
Middletown			
Raybestos Division of Raybestos-Manhattan Inc (Brake Linings, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber)	Raybestos Division of Raybestos-Manhattan Inc (Brake Linings, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber) Bridgeport		
Bridgeport			
Terriville Manufacturing Co (Stampings for automotive parts)	Terriville Manufacturing Co (Stampings for automotive parts) Terriville		
Terriville			
Automotive Polishing and Buffing Equipment	Automotive Polishing and Buffing Equipment		
Packer Machine Company	Packer Machine Company Meriden		
Automotive Tools	Automotive Tools		
Eis Automotive Corp (Brake Tools) Middletown	Eis Automotive Corp (Brake Tools) Middletown		

CONNECTICUT PRODUCTS AND SERVICES

Bag Sealing Machines		
Derby Sealers Inc	Derby	
Bakelite Moldings		
Watertown Mfg Co The	Watertown	
Balls		
Abbott Ball Co The (steel bearing and burnishing)	Hartford	
Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum)	Hartford	
Kilian Steel Ball Corp The	Hartford	
New Departure Div of General Motors (steel and steel alloy)	Bristol	
Pioneer Steel Ball Company Inc (steel for bearings, burnishing, graining; also brass, bronze and stainless)	Unionville	
Superior Steel Ball Co Inc (steel bearings & burnishing material)	New Britain	
Band Saw Machines		
Thompson & Son Co, The Henry G. (automatic cut-off)	New Haven	
Barrels		
Abbott Ball Co The (burnishing and tumbling)	Hartford	
Enthon Inc (tumbling)	New Haven	
Esbec Barrel Finishing Corp (burnishing & tumbling)	Byram	
Hartford-Steel Ball Co The (tumbling)	Hartford	
Baskets—Wire		
Rolock Inc	Fairfield	
Beaded Chain		
Auto-Swage Products, Inc.	Shelton	
Bearings		
Automation Bearings (ball & spherical)	Bridgeport	
Barden Corporation The (ball)	Danbury	
Fafnir Bearing Co (ball)	New Britain	
Marlin-Rockwell Corporation	Plainville	
New Departure Div of General Motors (ball)	Bristol	
Norma-Hoffman Bearings Corp (ball and roller)	Stamford	
Torrington Co The	Torrington	
Belows Assemblies		
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co	Milford	
Belows—Metallic		
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co	Milford	
Bells		
Bevin Brothers Mfg Co	East Hampton	
N N Hill Brass Co The	East Hampton	
Beltting		
Hartford Belting Co	Hartford	
Russell Mfg Co (High Speed Endless, Laminated Rubber, Roll Stock all types)	Middleton	
Bends—Pipe or Tube		
National Pipe Bending Co The	New Haven	
Bicycle Sundries		
Torrington Co The	Torrington	
Blacking Salts for Metals		
Du-Lite Chemical Corp	Middletown	
Enthon Inc	New Haven	
Mitchell-Bradford Chemical Co	Milford	
Black Oxide Finishing		
Black Oxide Inc	New Britain	
Black Oxide Treatment		
Bennett Metal Treating Co The	Elmwood	
Blades		
Capewell Manufacturing Company Metal Saw Division (hack saw and band saw)	Hartford	
Blast Cleaning Equipment		
Pressure Blast Mfg Co Inc (Wet and Dry and Abrasives)	Manchester	
Blocks		
Howard Company (cupola fire clay)	New Haven	
Blower—Centrifugal Type		
Spencer Turbine Co, The	Hartford	
Blower Fans		
Colonial Blower Company	Plainville	
Spencer Turbine Co The	Hartford	
Blower Systems		
Colonial Blower Company	Plainville	
Ripley Co	Middletown	
Ventilating Supplies Inc	Plainville	
Blower Wheels		
Torrington Manufacturing Company The	Torrington	
Blueprints and Photostats		
Joseph Merritt & Co	Hartford	
Blue Printing Machines		
Rotolite of New England	Glastonbury	
Boilers		
Bigelow Co The	New Haven	
Bolts and Nuts		
Clark Brothers Bolt Co.	Middletown	
Hartford Machine Screw Company	Hartford	
Div of Standard Screw Co	Torrington	
Torrington Co The		
Boring Tools		
Atrax Company The (solid carbide)	Newington	
Bottles		
Feldman Glass Co The	New Haven	
Box Board		
Bird & Son Inc	New Britain	
Continental Can Co Boxboard and		
Folding Carton Division	Montville	
Federal Paper Board Co Inc	Montville, New Haven & Versailles	
Lydall & Foulds Paper Co The	Manchester	
New Haven Board & Carton Co The	New Haven	
Robertson Paper Box Co	Montville	
Boxes		
Bird & Son Inc (corrugated, solid fibre, cleated containers)	New Britain	
Connecticut Container Corporation	New Haven	
Continental Can Co Fibre Drum and		
Corrugated Box Division	Portland	
Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes)	Durham	
Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup)	Bridgeport	
Boxes and Crates		
City Lumber Co of Bridgeport Inc The	Bridgeport	
Boxes—Folding		
Leshine Carton Co	Branford	
Boxes—Metal		
Durham Mfg Co	Durham	
Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes)	Durham	
Scovill Manufacturing Company (aluminum, brass, bronze, copper-cosmetic, drug, hair pin, ointment, pill, powder, rouge, vanity)	Waterbury	
Boxes—Paper—Folding		
Atlantic Carton Corp	Norwich	
Bridgeport Paper Box Co	Bridgeport	
Carpenter-Hayes Paper Box Co Inc	East Hampton	
Continental Can Co Boxboard and		
Folding Carton Division	Montville	
Curtis & Sons Inc S	Sandy Hook	
Folding Cartons Incorporated (paper, folding)	Versailles	
Mills Inc H J	Bristol	
National Folding Box Co Div Federal Paper Board Co Inc (paper folding)	New Haven and Versailles	
New Haven Board & Carton Co The	New Haven	
Robertson Paper Box Co	Montville	
Warner Bros Co The	Bridgeport	
Boxes—Paper—Setup		
Bridgeport Paper Box Co	Bridgeport	
Heminway Corporation The	Waterbury	
Mills Inc H J	Bristol	
Strouse Adler Company The	New Haven	
Warner Bros Co The	Bridgeport	
Brake Cables		
Eis Automotive Corp	Middletown	
Brake Linings		
Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial)	Bridgeport	
Russell Mfg Co (all types, Fused Fabric, Durak, Wireback, Extruded)	Middletown	
Brake Service Parts		
Eis Automotive Corp	Middletown	
Brass & Bronze		
American Brass Co The (sheet, wire, rods, tubes)	Waterbury	
Bridgeport Rolling Mills Company (coil, sheet, strip)		
Bristol Brass Corp The (sheet, wire, rods)	Bristol	
Chase Brass & Copper Co	Waterbury	
Miller Company The (phosphor bronze and brass in sheets, strips, rolls)	Meriden	
Plume & Atwood Mfg Co The (sheet, wire, rod)	Thomaston	
Scovill Manufacturing Company	Waterbury	
Tinsheet Metals Co The (sheets and rolls)	Waterbury	
Western Brass Mills Div of Olin Mathieson Chemical Corp (sheet, strip)	New Haven	
Brass & Bronze Ingot Metal		
Mitchell Smelting & Refining Co Inc	Botsford	
Plume & Atwood Mfg Co The	Thomaston	
Whipple and Choate Company The	Bridgeport	
Brass, Bronze, Aluminum Castings		
Coggins Mfg. Co., The J. B.	Meriden	
Derby Casting Company, The	Seymour	
Victors Brass Foundry Inc	Guilford	
Brass Goods		
American Brass Company The	Waterbury	
Plume & Atwood Mfg Co The (to order)	Waterbury	
Rostand Mfg. Co The (Ecclesiastical Brass Wares)	Milford	
Scovill Manufacturing Company (to order)	Waterbury	
Western Brass Mills Div Olin Mathieson Chemical Corp	New Haven	
Brass Mill Products		
American Brass Company The	Waterbury	
Chase Brass & Copper Co	Waterbury	
Plume & Atwood Mfg Co The	Thomaston	
Scovill Manufacturing Company	Waterbury	
Seymour Manufacturing Co The	Seymour	
Western Brass Mills Div Olin Mathieson Chemical Corp	New Haven	
Brick-Building		
Donnelly Brick Co The	New Britain	
Stiles Corp subsidiary of Plasticrete Corp	North Haven	
Bricks—Fire		
Howard Company	New Haven	
Mullite Works Refractories Div H K Porter Co Inc	Shelton	
Bright Wire Goods		
Sargent & Company (Screw Eyes, Screw Hooks, Cup Hooks, Hooks and Eyes, C H Hooks)	New Haven	
Bronze & Aluminum Castings		
Knapp Foundry Company Inc (rough or machined)	Guilford	
Bronze Sand Castings		
Bridgeport Deoxidized Bronze Corp	Bridgeport	
Brooms—Brushes		
Fuller Brush Co., The	East Hartford	
Buckles		
Hawie Mfg Co The	Bridgeport	
North & Judi Manufacturing Co	New Britain	
Patent Button Co The	Waterbury	
Risdon Manufacturing Co John M Russell Div	Naugatuck	
Buffing & Polishing Compositions		
Apothecaries Hall Company Division		
The Hubbard Hall Chemical Company		
Lea Mfg Co		
	Waterbury	
Building Materials		
City Lumber Co of Bridgeport Inc	Bridgeport	
Burglar Alarm Systems		
Mosler Research Products, Inc.	Danbury	
Burners		
Plume & Atwood Mfg Co The (kerosene oil lighting)	Thomaston	
Burners—Automatic		
Peabody Engineering Corporation	Stamford	
Burners—Coal and Oil		
Peabody Engineering Corporation	(Combined) Stamford	
Burners—Gas		
Peabody Engineering Corporation	(Blast) Stamford	

CONNECTICUT PRODUCTS AND SERVICES

Burners—Gas and Oil	Peabody Engineering Corporation (Combined)	Stamford	Casket Trimmings	Bridgeport Casket Hardware Co., The	The Bridgeport	Christmas Light Clips	Foursome Manufacturing Co	Bristol
Burners—Refinery	Peabody Engineering Corporation (For Gas and Oil)	Stamford	Casters	Bassick Company The (Industrial and General)	The Bridgeport	Chromium Plating	Chromium Corp of America	Waterbury
Burnishing	Abbott Ball Co The (Burnishing Barrels and Burnishing Media)	Hartford	Castings	Commercial Foundry Co., The (brass, bronze, aluminum)	New Britain	Chromium Process Company The	Shelton	Shelton
Pioneer Steel Ball Company Inc (balls, cones, other metallic shapes)	Unionville			Connecticut Foundry Co (grey iron)				
Burs	Atrax Company The (carbide)	Newington		Connecticut Malleable Castings Co (malleable iron castings)	Rocky Hill	Chucks	Jacobs Manufacturing Co The (drill chucks, lathe collet chucks and arbors)	West Hartford
Pratt & Whitney Co Inc (carbide and HSS)	West Hartford			Ductile Iron Foundry Inc	New Haven	Chucks	Skinner Chuck Co The	New Britain
Business Forms	Connecticut Manifold Forms Co The	West Hartford		Eastern Malleable Iron Company	Stratford	Chucks—Air	Union Manufacturing Company	New Britain
Business Counsellors	Wirth Management Company	Wilton		Farrel-Birmingham Company Inc (Meehanite Nodular Iron, Steel)	Ansonia	Chucks—Drill	Power Grip, Inc.	Rockfall
Buttons	Frank Parizek Manufacturing Co The Putnam Schwanda & Sons, B. (ocean pearl and plastic)	Stamford		H R Engineering Laboratories Inc (centrifugal steel mold)	East Haddam	Chucks—Face Plate Jaws	Jacobs Manufacturing Co The	West Hartford
Scoville Manufacturing Company (Uniform and Tack Fasteners)	Waterbury			Malleable Iron Fittings Co (malleable iron and steel)	Branford	Chucks—Lathe	Skinner Chuck Co The	New Britain
Waterbury Companies Inc (Uniform and Fancy Dress)	Waterbury			McLaglen Foundry Co (grey iron)	New Haven	Chucks—Power Operated	Union Manufacturing Company	New Britain
Button Head Socket Screws	Holo-Krome Screw Corp.	West Hartford		New England Alloy Casting Corp	Hartford	Clay	Howard Company (Fire Howard "B" and High Temperature Dry)	New Haven
Cabinet Work	Hartford Builders Finish Co	Hartford		Newton-New Haven Co (zinc and aluminum)	West Haven	Cleaning Compounds	Enthone Inc (Industrial)	New Haven
Cable—Asbestos Insulated	Rockbestos Wire & Cable Co Div Pasco Corp	New Haven		Nutmeg Crucible Steel Co (steel)	Branford	Clock Mechanisms	MacDermid Incorporated	Waterbury
Cable—Interlocked Armor	General Electric Company	Bridgeport		Plainville Casting Company (gray, alloy and high tensile irons)	Plainville	Clocks	E Ingraham Co The	Bristol
Cable—Nonmetallic Sheathed	General Electric Company	Bridgeport		Philbrick-Booth & Spencer Inc	Hartford	Clocks—Alarm	Lux Clock Mfg Co The	Waterbury
Cages	Hendry Co The Andrew B (bird and animal)	New Haven		Producto Machine Company	The Bridgeport	Clocks—Automatic Cooking	Lux Clock Mfg Co The	Waterbury
Cams	American Cam Company Inc	Hartford		Scovill Manufacturing Company (Brass & Bronze)	WATERBURY	Clutches	Snow-Nabstedt Gear Corp The	New Haven
Bristol Instrument Gears, Inc.	Forestville			Mullite Works Refractories Div H K Porter Co Inc	Shelton	Clutch Facings	Raybeston Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic)	Bridgeport
Hartford Special Machinery Co The	Hartford			Brown Manufacturing Co	Plainville	Coils—Electric	Bittermann Electric Company	Canaan
Rowbottom Machine Company Inc	Waterbury			New England Centerless Grinding Inc	West Hartford	Coils—Pipe or Tube	Rowley Spring Co Inc The	Waterbury
Cams, 2 Dimensional	Mallory Industries Inc	West Hartford		Centerless Centerless Co	Winsted	Coil Winding	National Pipe Bending Co The	New Haven
Parker-Hartford Corporation	Hartford			Ready Tool Co The (anti friction, carbide tipped, high speed)	Stratford	Communication Systems	Whitlock Manufacturing Co The	Hartford
Cams, 3 Dimensional	Mallory Industries Inc	West Hartford		Centrifugal Pumps	Hameco Inc (gasoline or electric driven)			
Parker-Hartford Corporation	Hartford			Russell Mfg Co (for missiles, and for friction materials)	Middletown	Commercial Heat Treating	A F Holden Company The	West Haven
Capacitors	Electro Motive Mfg Co Inc The	Willimantic		Chair	Risdon Manufacturing Co John M Russel Div Naugatuck			
Carbide Dies	National Die Co., Inc., The	Wolcott		Turner and Seymour Mfg Co The (weildless sash, jack, safety, furnace, universal, Iion and cable)	Torrington	Chemical Manufacturing	Carwin Company The	North Haven
Carbide Form Tools	Somma Tool Co. (for automatic screw machines)	Waterbury		Whitney Chain Company	Hartford	Chemicals	Apothecaries Hall Company Division	Waterbury
Carbide Shape Dies	Thomaston Tool & Die Co (any form)	Thomaston		Whitney Chain Co The Subsidiary of Foote Bros Gear and Machine Corp	Hartford		The Hubbard Hall Chemical Company	North Haven
Carbide Tools	Atrax Company The (solid)	Newington		Chain—Power Transmission and Conveying	Auto-Swage Products Inc			
Precision Tool & Die Co	Waterbury			Whitney Chain Company	Shelton	Compacts	Scovill Manufacturing Company (powder and rouge)	Waterbury
Carbon Pile Type Resistors	Engineered Metals	Manchester		Whitney Chain Co The	Bridgeport	Compressors	Brunner Division of Dunham-Bush Inc (Refrigeration, Air Conditioning and Air Compressors)	West Hartford
Card Clothing	Standard Card Clothing Co The (for textile mills)	Stafford Springs		Fuller Brush Co. The (for cleaning and maintenance—cleaners, deodorants, detergents, disinfectants, dust absorbers and polishers)	North Haven	Computers	Reflection Electronics Inc	Stamford
Card Indexes	Wassell Organization Inc	Westport		Macalaster Bicknell Company	New Haven		Royal McBee Corp	Hartford
Carpenter's Tools	Sargent & Company (Planes, Squares, Plumb Bobs, Bench Screws, Clamps and Saw Vises)	New Haven		MacDermid Incorporated	Waterbury	Concrete Products	Plasticrete Corp	Hamden, Hartford, North Haven, Waterbury, Willimantic
Carpets and Rugs	Bigelow-Sanford Carpet Co	Thompsonville		Naugatuck Chemical Division	United States	Condenser and Heat Exchanger Tubes	Scovill Manufacturing Company	Waterbury
Carton Closure Equipment	Better Packages Inc ("Tape-O-Matic," "Better Pack")	Shelton		Naugatuck Rubber Co (insecticides, fungicides, weed killers)	Naugatuck			
Chemists—Analytical and Consulting	Bridgeport Testing Laboratory Inc	Bridgeport		Chemicals—Agriculture	Naugatuck Chemical Division			

CONNECTICUT PRODUCTS AND SERVICES

Cones Sonoco Products Co (Climax-Lowell Div) (paper) Mystic	Cord Sets—Electric General Electric Company Seeger-Williams Inc Bridgeport	Die Casting Dies Eastern Machine Screw Corp The New Haven Weimann Bros Mfg Co The Derby
Connector Gorn Electric Co Inc (precision miniature electrical and printed circuit) Stamford	Cork Cots Sonoco Products Co (Climax-Lowell Div) Mystic	Die Heads—Self Opening Eastern Machine Screw Corp The New Haven Geometric Tool Division Greenfield Tap & Die Corp New Haven
Construction Equipment Trailers Kensington Welding & Trailer Co The Kensington	Corn Cob Meal Nielson & Sons Inc John R (Graded) South Windsor	Die Sets Producto Machine Company The Bridgeport Superior Steel Products Corp. (steel) Cheshire Union Mfg Co (precision, steel and semi-steel) New Britain
Consultants Robotham Co, The Edward W. (advertising & marketing) Westport	Correspondence Files Wassell Organization Inc Westport	Dies Hoggson & Pettis Mfg Co The New Haven Mitrametric Co The (ground for gears) Torrington
Consulting Engineers Stanley P. Rockwell Co Inc The (Consulting) Hartford	Corrugated Box Manufacturers Connecticut Container Corporation New Haven Corrugated Containers Inc Hartford	Pratt & Whitney Co Inc (thread cutting and thread rolling) West Hartford
Continuous Mill Gages Pratt & Whitney Co Inc West Hartford	Corrugated Shipping Cases Connecticut Container Corporation New Haven Continental Can Fibre Drum and	Dies & Die Cutting Douglas Co Geo M New Haven
Contract Machining Laurel Mfg Co Inc (Precision Production Small Parts) Plainville	Corrugated Box Division D L & D Container Corp Portland New Haven Board & Carton Co. New Haven	Dielectric Heaters Radio Frequency Co., Inc. New Britain
Malleable Iron Fittings Company Branford McMellon Bros., Inc. (precision threaded parts) Bridgeport	Cosmetic Containers Eyelet Specialty Div International Silver Co Wallingford Lakewood Metal Products, Inc. Waterbury Plume & Atwood Mfg Co The (metal) Thomaston Scovill Manufacturing Company Waterbury	Displays Sansome Co., S. Frederick (design & production) Short Beach
Contract Manufacturers Advanced Electronics, Inc. Rocky Hill American Standard Products, Inc. Hartford Fenn Mfg Co The (Precision Machine Work) Newington	Cosmetics Chesebrough-Pond's, Inc. Clinton Fuller Brush Co. The East Hartford	Display Containers National Folding Box Co Div Federal Paper Board Co Inc (folding paperboard) New Haven and Versailles
Greist Mfg Co The (Metal parts and assemblies) New Haven	Counting Devices Veeder-Root Inc Hartford	Displays—Design & Production Ad-Craft Displays Inc Bloomfield Stifel & Kufta New Britain
Hartford Machine Screw Co Div of Standard Screw Co Hartford Merriam Mfg Co (production runs—metal boxes and containers to specifications) Durham	Couplings Scovill Manufacturing Company (garden and industrial hose) Waterbury	Display Equipment Polecats Inc Old Saybrook
Plume & Atwood Mfg Co The (metal parts and assemblies) Thomaston	Cushioning for Packaging Gilman Brothers Co The Gilman	Displays—Metal Durham Mfg Co The (Designing & Mfg to customers' specifications) Durham Merriam Mfg Co (Contract Work to Individual Specifications) Durham Parsons Co Inc W A (custom designed) Durham
Scovill Manufacturing Company (metal parts and assemblies) Waterbury	Cutters Atrax Company The (solid carbide) Newington	Displays—Plastic Dura Plastics of New York Inc Westport
J H Sessions & Son Bristol Torrington Co The Torrington	Hanson-Whitney Co The (thread milling) Hartford	Diversification Advisors Wirth Management Company Wilton
Voss Co The Branford	Mitrametric Co The (ground pinion) Torrington	Door Closers Sargent & Company New Haven
Controllers Bristol Company The Waterbury Manning Maxwell & Moore Inc Stratford	Pratt & Whitney Co Inc (Milling Cutters all types carbide and HSS) West Hartford	Doors Bilco Co The (metal, residential and commercial) West Haven
Controls—Remote Panish Controls (Remote Controls for Marine & Aeronautic Applications) Bridgeport	Cutting & Creasing Rule Bartholomew Co H J Bristol	Dowel Pins Allen Manufacturing Co The Bloomfield Hartford Machine Screw Co Div of Standard Screw Co Hartford Holo-Krome Screw Corp The West Hartford Torrington Co The Torrington
Controls—Hydraulic Remote Sperry Products Inc Danbury	Data Processing Equipment Royal McBee Corp Hartford	Drafting Accessories Joseph Merritt & Co Hartford
Converters DC to AC Electric Specialty Co Stamford Safety Electrical Equipment Corp New Haven	Decalcomanias Sirocco Screenprints New Haven	Drawn Shells Cly-Del Manufacturing Co Waterbury
Conveyor Systems Hayes-Te Equipment Corp Connecticut Conveyor Division (Conveyor Co The) Unionville	Deep Drawings Stanley Pressed Metal New Britain Terriville Manufacturing Co Terriville	Drill Presses Sigourney Tool Co. (sensitive drilling machines) Bloomfield Townsend Mfg Co The H P Elmwood
Leeds Conveyor Mfg Co The East Haven Production Equipment Co Meriden	Deep Hole Drilling & Reaming Hamden Deep Hole Drilling Co Hamden Products Design & Mfg. Corp. Newington	Drilling Machines Pratt & Whitney Co Inc (Deep Hole) West Hartford
Copper American Brass Corp The (sheet, wire, rods, tubes) Waterbury Bristol Brass Corp The (steel) Bristol Chase Brass & Copper Co (sheet, rod, wire, tube) Waterbury Thinsheet Metals Co The (sheet and rolls) Waterbury Western Brass Mills Div Olin Mathieson Chemical Corp New Haven	Delayed Action Mechanism M H Rhodes Inc Hartford R W Cramer Company Inc The Centerbrook	Drilling Service—Hard Steel Walton Co., The West Hartford
Copper Castings Knapp Foundry Company Inc Guilford	Diamond Tools Parsons Diamond Products Inc West Hartford Russell Inc RR Newington	Drilling and Tapping Units Hartford Special Machinery Co. Hartford
Copper Sand Castings Bridgeport Deoxidized Bronze Corp Bridgeport	Dictating Machines Dictaphone Corporation Bridgeport SoundScriber Corporation The New Haven	Drop Forgings Atwater Mfg Co Plantaville Billings & Spencer Co The Hartford Consolidated Industries West Cheshire Wilcox Crittenden & Co Inc Middletown
Copper Sheets American Brass Company The Waterbury New Haven Copper Co The Seymour	Die Cast Dies C & F Tool & Die Corp Bridgeport	Duplicating Machines Thermo-Fax Sales of Conn., Inc. New Haven
Copper Shingles New Haven Copper Co The Seymour	Die Castings Mt. Vernon Die Casting Co. Stamford Peasley Products, Inc. (aluminum and zinc) Stratford Newton-New Haven Co Inc New Haven Stewart Die Casting Div Stewart-Warner Corp Bridgeport	Duplicating Machines—Automatic Pratt & Whitney Co Inc West Hartford
Copper Water Tube American Brass Company The Waterbury		
Copying Machines Thermo-Fax Sales of Conn., Inc. New Haven		
Cord Russell Mfg Co The (marine & aero shock) Middletown		

CONNECTICUT PRODUCTS AND SERVICES

Dust Collectors		Electrical Switchboards		Extractors
Colonial Blower Co Ventilating Supplies Inc	Plainville	Plainville Electrical Products Co The	Plainville	Walton Co., The (tap, pipe & stud) West Hartford
Elastic		Pneumatic Applications Co	Simsbury	
Russell Mfg Co (rubber shock cord—all sizes and types)	Middletown	Wiremold Co The	Hartford	
Electric Cables				Extraction Service
General Electric Company (for residential, commercial and industrial applications)	Bridgeport	Victor Tool & Mfg Inc	Higganum	Walton Co., The (taps, drills, studs) West Hartford
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven				
Electric Cord Springs		Electro Mechanical Prototypes		Extruders and Accessories
Bristol Spring Manufacturing Co	Plainville	Advanced Electronics, Inc. (custom)	Rocky Hill	Davis Electric Company (Ram Type Teflon Extruder) Wallingford
Electric Cords				Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic
General Electric Company	Bridgeport	Electronic Assemblies		
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven		Patent Button Company The	Waterbury	
Electric Enclosed Switches		Prentice Mfg Co The G E (stampings to customers' specifications)	Kensington	
Arrow-Hart & Hegeman Electric Co	The Hartford	Terryville Manufacturing Co (Stampings to customer specifications)	Terryville	
Electric Eye Control		Electronics		Eyelets
Ripley Company Inc	Middletown	Anderson Laboratories, Inc.	West Hartford	American Brass Co The Waterbury
Electric Fixture Wire		Ripley Co	Middletown	Arry Eyelet & Tool Co. (small-printed circuit, brass & copper) Waterbury
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven		Sturrup Larabee & Warmers Inc	Middletown	Cly-Del Manufacturing Waterbury
Electric Hand Irons		Vinco Electronics Corporation	New Haven	Gem Machine & Tool Co. Waterbury
Winsted Hardware Mfg Co (trade mark "Durabit")	Winsted			Mark Eyelet & Stamping Co (small-metal stampings) Wolcott
Electric Heating Elements				Platt Bros. & Co The Waterbury
Hartford Element Co	Hartford			Plume & Atwood Mfg Co The Thomaston
Electric Insulation				Stevens Co Inc Waterbury
Stevens Paper Mills Inc The	Windsor			Salem Mfg. Co. Prospect
Electric Lighting Fixtures		Electro-Mechanical Assemblies		
Plume & Atwood Mfg Co The	Thomaston	Advanced Electronics, Inc. (custom)	Rocky Hill	
Waasley Products Inc	Plainville			
Electric Motor Controls		Electroplating		Eyelets, Ferrules and Wiring Terminals
Arrow-Hart & Hegeman Electric Co	The Hartford	Coggins Mfg. Co., The J. B. Giering Metal Finishing Inc	Meriden Hamden	American Brass Company The Waterbury
Electric Motor Winding		National Sherardizing & Machine Co	Hartford	
Monarch Electric Co (3 phase industrial motors)	New Britain	Waterbury Plating Company	Waterbury	Ball & Socket Mfg Co The West Cheshire
Electric Motor Repair				Cold Forming Mfg Co The Waterbury
B & J Electric Co	Ansonia	Electroplating—Equipment & Supplies		Lakewood Metal Products, Inc. Waterbury
Electric Motors		Apothecaries Hall Company Division		National Die Co., Inc. The Wolcott
Electric Specialty Co	Stamford	Enthonie Inc Hubbard Hall Chemical Company	New Haven The	Platt Bros. & Co The Waterbury
Harvey Hubbell Incorporated	Bridgeport	Lea Manufacturing Co The MacDermid Incorporated	Waterbury Waterbury	Plume & Atwood Mfg Co The Thomaston
Iona Manufacturing Company	The			Stevens Co Inc Waterbury
Monarch Electric Co (Allis Chalmers)	Manchester			
Safety Electrical Equipment Corp	New Haven	Electroplating Processes & Supplies		Eyelet Machine Products
U S Electrical Motors Inc	Milford	Enthonie Inc	New Haven	American Brass Company The Waterbury
Electric Switches				Ball & Socket Mfg Co The West Cheshire
Harvey Hubbell, Incorporated	Bridgeport	Electrotypes		Cold Forming Mfg Co The Waterbury
Electric Time Controls		Barnum-Hayward Electrotype Co Inc	New Haven	Lakewood Metal Products, Inc. Waterbury
Cramer Controls Corporation	The Centerbrook	Lockwood Sons Inc Wm H New Haven Electrotyping Corp	Hartford	National Die Co., Inc. The Wolcott
Electric Wire				Platt Bros. & Co The Waterbury
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated) New Haven				Plume & Atwood Mfg Co The Thomaston
Electric Wiring Devices		Elevators		Stevens Co Inc Waterbury
Arrow-Hart & Hegeman Electric Co	The Hartford	Eastern Elevator Co (passenger and freight)	New Haven	
Harvey Hubbell Incorporated	Bridgeport	General Elevator Service Co	Hartford	Eyelet Parts
Electrical Appliances				Auto-Swage Products, Inc. Shelton
Iona Manufacturing Company	The	Employment Agencies		
	Manchester	Administrative-Technical Personnel Service	Hartford	Fabricators
Electrical Conduit Fittings & Grounding Specialties		Burnham Employment Agency (executive technical, secretarial)	Hartford	Scovill Manufacturing Company (aluminum, brass, bronze, copper, steel) Waterbury
Gillette-Vibber Company	The New London	Rita, Richard P. Personnel Services, Inc.	New Haven, Bridgeport & Hartford	
Electrical Connectors		Snelling & Snelling	Hartford	Fabrics
Burdry Corporation	Norwalk			Russell Mfg Co (Teflon, Moulded Fabric, Bearing Surfaces, High Temperature Fabrics) Middletown
Electrical Control Apparatus		Enameling		Fan Blades
Plainville Electrical Products Co	The Plainville	Giering Metal Finishing Inc	Hamden	Torrington Manufacturing Company The Torrington
		Waterbury Plating Company	Waterbury	
Electrical Controls		Enamels & Lacquers		Fans—Electric
Monarch Electric Co (Allis Chalmers)	New Britain	Dobbs Chemical Co The (industrial finishes to customers' specifications)	New Haven	General Electric Company Bridgeport
				Monarch Electric Co (attic, industrial and ventilating) New Britain
Electrical Insulation		Engineering		Fans—Industrial
Case Brothers, Inc.	Manchester	Technical Design and Development Co Inc (design and drafting)	Milford	Ventilating Supplies Inc Plainville
Electrical Recorders		Engineering Service		Fasteners—Aircraft
Bristol Co The	Waterbury	Lacey Manufacturing Co, The	Bridgeport	Scovill Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury
Electrical Relays and Controls		End Mills		Fasteners—Industrial
Allied Control Co	Plantsville	Atrax Company The (solid carbide)	Newington	Torrington Co The Torrington
Engraving—Plastic and Nonferrous Metals		Envelopes		Fasteners—Laundry Proof
New England Engraving Company Div of Dura Plastics of New York Inc	Westport	Curtis 1000 Inc	Hartford	Scovill Manufacturing Company (GRIPPER snap fasteners) Waterbury
Pratt & Whitney Co Inc (carbide and HSS)	West Hartford	United States Envelope Company	Hartford	
		Hartford Division	Hartford	Fasteners—Slide & Snap
Environmental Test Equipment				Scovill Manufacturing Company (GRIPPER zippers and GRIPPER snap fasteners) Waterbury
American Research Corporation	Farmington			
Excelsior				Felt
Nielsen & Sons Inc John R	South Windsor			Auburn Manufacturing Company The (mechanical, cut parts) Middletown
Explosives				Drycor Felt Company (paper makers and industrial) Staffordville
Ensign-Bickford Co, The (safety fuse, detonating fuse, blasting accessories)	Simsbury			
Extensions—Tap				
Walton Co., The	West Hartford			Felt—All Purpose
				American Felt Co (Mill & Cutting Plant) Glenville
Fibre Board				Chas W House & Sons Inc (Mills & Cutting Plant) Unionville
Bird & Son Inc	New Britain			
Case Brothers Inc	Manchester			
Colonial Board Company	Manchester			
C H Norton Co The	North Westchester			
Stevens Paper Mills Inc The	Windsor			
Fiberglass Products				
Fiberglass Products Eng. Co.	South Norwalk			

CONNECTICUT PRODUCTS AND SERVICES

File Cards	Malleable Iron Fittings Co (Malleable Iron and Steel Castings)	Grommets
Standard Card Clothing Co The	Branford	American Brass Company The
Stafford Springs	Hartford	Plume & Atwood Mfg Co The
Filing Equipment	Plainville	Waterbury
Wassell Organization Inc	Westport	Waterbury
Film Processing Machinery	Producto Machine Company The	Bridgeport
Filmline Corporation	Turner & Seymour Mfg Co The	(gray, iron, semi steel and alloy)
Milford	Torrington	
Filters—Fluid	Union Mfg Co (gray iron & semi steel)	New Britain
Alsop Engineering Co	Wilcox, Crittenden & Co Inc	(iron, brass, aluminum and bronze)
Cuno Engineering Corp The	Middletown	
Milldale		
Meriden		
Filter Media		
National Filter Media Corp. (cloth & paper)	Fountain Pens and Mechanical Pencils	Seymour
New Haven	Waterman Pen Company Inc	
Finger Nail Clippers		
H C Cook Co The	Foundry Riddles	New Haven
Ansonia	John P Smith Co The	
Firearms		
Colt's Patent Fire Arms Mfg Co Inc	Four Slide Forms	Plainville
Hartford	Peck Spring Co	
Junior Screw Machine Products Inc		
West Haven	Fuel Oil Pump and Heater Sets	Stamford
Marlin Firearms Co The	Peabody Engineering Corporation	
New Haven		
O. F. Mossberg & Sons Inc	Furnaces	
New Haven	Norwalk Airconditioning Corp	South Norwalk
Winchester-Western Div Olin Mathieson Chem-ical Corp	Rockwell Co., W. S. (industrial)	Fairfield
New Haven		
Fire Alarm Systems	Gage Blocks	West Hartford
Fire-Lite Alarms Inc	Pratt & Whitney Co Inc (Alloy steel and Carbide, Hooke & USA)	
New Haven		
Fire Hose	Galvanizing	
Fabrics Fire Hose (municipal and industrial)	Malleable Iron Fittings Co	Branford
Sandy Hook	Wilcox Crittenden & Co Inc	Middletown
Fireplace Goods		
Puritan Fireplace Furnishings Co.	Garment Accessories	Oakville
Milford	Oakville Co. Div. Scovill Mfg. Co.	
Fireworks		
M Backes' Sons Inc	Gaskets	
Wallingford	Auburn Manufacturing Company The (from all materials)	Middletown
Flame Hardening	Raybestos Division of Raybestos-Manhattan Inc	Bridgeport
Flame Treating & Engineering Co., The		
West Hartford		
Flashlights	Gaskets—Metallic	Glenbrook
Bridgeport Metal Goods Mfg Co	Laminated Shim Company Inc	
Bridgeport		
Flat Head Socket Screws	Gas Scrubbers, Coolers and Absorbers	
Holo-Krome Screw Corp.	Peabody Engineering Corporation	Stamford
West Hartford		
Flat Springs	Gauges	
Bristol Spring Manufacturing Co.	Bristol Co The (pressure and vacuum-recording automatic control)	Waterbury
Gemco Manufacturing Co Inc	Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum)	
Southington		
Flexible Shaft Machines	J & S Machine Co Inc (End Measures, Cyl Plugs & Rings)	Bridgeport
Pratt & Whitney Co Inc	Manning Maxwell & Moore Co Inc	Stratford
West Hartford	New Haven Trap Rock Co The	Machine Products Div (Johan Universal and Special Purpose Gauge)
	Pratt & Whitney Co Inc (Precision Measurement all types)	North Branford West Hartford
Floats	Gears	
Sansome Co., S. Frederick (parade)	Bridgeport Worm & Gear Mfg. Co.	Bridgeport
Short Beach	Bristol Instrument Gears, Inc.	Forestville
	Mitrametric Co The (blanked fine pitch)	Torrington
Float Switches		
Gorn Electric Co Inc (for aircraft and commercial use)	Gears and Gear Cutting	
Stamford	Farrel-Birmingham Company Inc	Ansonia
	Fenn Mfg Co The	Newington
	United Gear & Machine Co	Suffield
Floor & Ceiling Plates		
Beaton & Cadwell Mfg Co The	Generators	
New Britain	Hameco Inc (electric, portable, gasoline driven)	New Haven
	Safety Electrical Equipment Corp	New Haven
Fluorescent Lighting Equipment		
Fullerton Manufacturing Corp	Glass Blowing	New Haven
Norwalk	Macalaster Bicknell Company	
Vanderman Manufacturing Co The	Glass Containers	New Haven
Willimantic	Feldman Glass Co. The	
Wiremold Company The	Glass Cutters	Forestville
Hartford		
Foam Rubber	Grinding	
Armstrong Rubber Company The	Farrel-Birmingham Company Inc (Roll and Cylindrical)	Ansonia
West Haven	Horberg Grinding Industries Inc (Precision custom grinding; centerless, cylindrical, surfaces, internal and special)	Bridgeport
	K-F & D Mfg Company The (Contour and Precision)	Manchester
Forgings		
Atwater Manufacturing Company	Grinding Machines	
Billings & Spencer Company	Farrel-Birmingham Company Inc (Roll)	
Bridgeport Hardware Mfg Corp The	Rowbottom Machine Company Inc (cam)	Waterbury
Capewell Manufacturing Company		
Chase Brass & Copper Co		
Consolidated Industries Inc		
Heppenstall Co (all kinds and shapes)		
Ideal Forging Corp.		
Southington		
Scovill Manufacturing Company (Non-ferrous)		
Waterbury		
Forming Tools		
C & S Tool Co., Inc.		
Berlin		
Forms		
Baker Goodyear Co (Columnar and Analysis)		
Branford		
Foundries		
Connecticut Malleable Castings Co (malleable iron castings)	Grinding Wheels	
Derby Castings Company, The	Fuller Merriam Company The	West Haven
Stratford		

CONNECTICUT PRODUCTS AND SERVICES

Heat-Treating Equipment	Silent Glow Oil Burner Corp., The	Hartford	Junior Automobiles	Power Car Company	Mystic
Barnes Co The Wallace Div Associated Spring Corp.	Bristol				
Bauer & Company Inc	Hartford		Key Blanks	Sargent & Company	New Haven
Rolock Inc (Retorts, Muffles, etc)	Fairfield				
Stanley P Rockwell Co Inc The (commercial)			Labels	Naugatuck Chemical Division United States Rubber Co (for rubber articles)	Naugatuck
Stanley P Rockwell Co Inc The (commercial)	Hartford				
Heat Treating Fixtures	Mirror Polishing & Buffing Co	Waterbury	Label Dispensers	Derby Sealers Inc (pressure-sensitive labels)	Derby
Rolock Inc (Trays, Baskets, etc.)					
Wiretex Mfg Co Inc	Bridgeport		Label Moisteners	Better Packages Inc ("Counterboy"—"Packer")	Shelton
				Derby Sealers Inc	Derby
Heat Treating Salts and Compounds	Hartford Special Machinery Co. (Hartford "Super-Spacers")	Hartford	Laboratory Equipment	Eastern Industries Inc	New Haven
Mitchell-Bradford Chemical Co					
Heaters—Electric	Flame Treating & Engineering Co.	West Hartford	Laboratory Supplies	Macalnster Bicknell Company	New Haven
General Electric Company					
Heating	Induction Hardening		Laces	American Fabrics Company The	Bridgeport
Dunham-Bush Inc	Induction Heaters	New Britain		Wilcox Lee Corporation The	Middletown
Heating and Cooling Coils	Illuminized Finish Co. (vacuum)	Cromwell	Lacquers & Synthetic Enamels	Chemical Coatings Corporation	Rocky Hill
G & O Manufacturing Co	Industrial Coating			I-Sis Chemicals Inc	Stamford
	Aluminized Finish & Mfg Co. (vacuum)	Cromwell			
Heating Elements	Industrial Coatings		Ladders	Flint Co A W	New Haven
Hartford Element Co	Industrial Design	Westport			
	Van Dyk Associates (product appearance and engineering)		Lamps	Plume & Atwood Mfg Co The (metal oil)	Waterbury
Heavy Chemicals	Industrial Displays				
Naugatuck Chemical Division United States Rubber Co (sulphuric, nitrile and muriatic acids and aniline oil)	Sansone Co S Frederick (Designers Builders and Counselors)	Short Beach	Lamp Products	de Sherbinin Products, Inc., W. N. Hawleyville	
Hex-Socket Screws	Industrial Finishes		Lampholders—Incandescent and Fluorescent	General Electric Company	Bridgeport
Allen Manufacturing Company The	Chemical Coatings Corporation	Rocky Hill			
Bristol Company The	Industrial Security	Bridgeport	Lamp Shades	Verplex Company The	Essex
Hartford Machine Screw Co Div of Standard Screw Co	Interstate Industrial Protection Co.	Bridgeport			
			Lanterns—Battery Operated	Electrical Div Olin Mathieson Chemical Corp	New Haven
High Frequency Alternators	Industrial Tapes				
Electric Specialty Co	Seamless Rubber Company	New Haven			
Safety Electrical Equipment Corp	Industrial Testing	Bridgeport	Lathe Chucks	Whiton Machine Co.	New London
	State Testing Laboratory (chemical, physical, environmental, electronic, radiographic isotope)				
Highway Guard Rail Hardware	Infrared Detectors		Lathes—Toolroom and Automatic	Pratt & Whitney Co Inc	West Hartford
Malleable Iron Fittings Co	Barnes Engineering Co. (and systems)	Stamford			
			Lead Plating	Christie Plating Co The	Groton
Hinges	Inks				
Homer D Bronson Company	Waterman Pen Company Inc	Seymour	Leather	Herman Roser & Sons Inc (Genuine Pigskin)	Glastonbury
Hobs and Hobbing	Insecticides		Leather Dog Furnishings	Andrew B Hendryx Co The	New Haven
Pratt & Whitney Co Inc (Die and Thread milling)	American Cyanamid Company	Waterbury		The Smith-Worthington Saddlery Co	Hartford
	Fuller Brush Co. The	East Hartford			
Hobs	Inserts—Screw Threads		Leather, Mechanical	Auburn Manufacturing Company	The (packings, cubs, washers, etc)
Hanson-Whitney Co The (fine pitch gear)	Heli-Coil Corp	Danbury			Middletown
			Letterheads	Lehman Brothers Inc (designers, engravers, lithographers)	New Haven
Hoes	Instalment Payment Books				
Scovil, Inc., D & H (eye and grub)	Wassell Organization Inc	Westport	Lighting Equipment	Fullerton Manufacturing Corp	Norwalk
				Miller Co The (Miller, Ivanhoe)	Meriden
Hoists and Trolleys	Insulated Wire & Cable				
Union Mfg Company	General Electric Company (for residential commercial and industrial applications)	Bridgeport	Lighting Fixtures	Wasley Products Inc	Plainville
Hooks & Eyes	Insulated Wire & Cable Machinery		Lime	New England Lime Company	Canaan
Oakville Co. Div. Scovill Mfg. Co.	Davis Electric Company	Wallingford			
			Lipstick Cases	Scovill Manufacturing Company	Waterbury
Homogenizers	Instruments				
Sonic Engineering Corp.	Bristol Company The	Waterbury	Lipstick Containers	Bridgeport Metal Goods Mfg Co	Bridgeport
	Manning Maxwell & Moore Inc	Stratford		Lakewood Metal Products, Inc.	Waterbury
Honing	Penn Keystone Corporation	Derby		Plume & Atwood Manufacturing Co	Waterbury
K-F & D Mfg Company The	Pratt & Whitney Co Inc (Precision Measuring)	West Hartford			
	Terryville Manufacturing Co (stampings for)	Terryville	Lithography		
Hose Fittings					
Scovill Manufacturing Company (garden and industrial hose)					
Hose—Flexible Metallic	Integrators				
American Brass Co	Reflectone Electronics Inc	Stamford			
American Metal Hose Branch					
Johnson Metal Hose, Inc.					
Hose Supporter Trimmings	Intercommunication				
Hawie Mfg Co The (So-Lo Grip Tabs)	Action Systems Co	Meriden			
Hospital Products	Interval Timers				
Seamless Rubber Company	Lux Clock Manufacturing Company	Waterbury			
	Rhodes Inc M H	Hartford			
Hospital & Rehabilitation Equipment	Investigators				
Polecats Inc	Dale System, Inc.	New Haven			
Hydraulic Brake Fluids	Jacquard Cards				
Eis Automotive Co	Case Brothers, Inc.	Manchester			
Hydraulic Components and Systems	Japanning				
Vickers Incorporated Marine & Ordnance Dept.	H Sessions & Son	Bristol			
H.S. Form Tools	Jig Borer				
Somma Tool Co. (for automatic machines)	Atlantic Machine Tool Works, Inc. (Atlantic in several sizes)	Newington			
	Linley Brothers Company	Bridgeport			
	Moore Special Tool Co (Moore)	Bridgeport			
	Pratt & Whitney Co Inc	West Hartford			
Hypodermic Needles	Jigs, Fixtures & Gages				
Roehr Products Company	Federal Machine & Tool Co	Bristol			
Impregnating	Jig Grinder				
American Metaseal Inc (metal, wood, etc.)	Moore Special Tool Co (Moore)	Bridgeport			

CONNECTICUT PRODUCTS AND SERVICES

Locks—Builders		Machinery—Metal-Working		Machining—Horizontal Boring
Sargent & Company	New Haven	Fenn Mfg Co The Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Pratt & Whitney Co Inc	Newington Waterbury West Hartford	Tucker Machine Co New Haven
Locks—Cabinet				Magnesium Sand Castings
Excelsior Hardware Co The	Stamford			Peerless Aluminum Foundry Co., Inc. Bridgeport
Lock Nuts		Machinery—Nut		
McMellon Bros., Inc.	Bridgeport	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc (forming and tapping)	Waterbury	Management Consultants
Locks—Suitcase and Trimmings				Administrative-Technical Personnel Service Hartford
Excelsior Hardware Co The	Stamford	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Management Counsel
Locks—Trunk				Wirth Management Company Wilton
Excelsior Hardware Co The	Stamford	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Manganese Bronze Ingot
Locks—Zipper				Whipple and Choate Company Bridgeport
Excelsior Hardware Co The	Stamford	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Manicure Instruments
Loom—Non-Metallic				W E Bassett Company The Derby
Wiremold Company The	Hartford	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Manifold Forms
Lumber & Millwork Products		Machinery—Wire Drawing		Walters Business Forms, Inc. Bloomfield
City Lumber Co of Bridgeport Inc	Bridgeport	Fenn Mfg Co The Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Newington Waterbury	Marine Equipment
Machetes				Wilcox-Crittenden Div North & Judd Mfg Co Middletown
Collins Company The	Collinsville	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Marine Machines
Machine Overload Monitors		Machinery—Wire Straightening		Essex Machine Works, Inc (Propellers, Shafts, etc.) Essex
Sperry Products Inc	Danbury	Shuster Wire Machine Div. Mettler Machine Tool, Inc.	New Haven	Marine Reserve Gears
Machine Shop Fabrication		Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Snow-Nabstdt Gear Corp The New Haven
Advanced Electronics, Inc.	Rocky Hill	Shuster Wire Machine Div. Mettler Machine Tool, Inc.	New Haven	Marketing Counsel
Machine Tools				Brunelle Co., The Charles Hartford
Farrel-Birmingham Company Inc	Ansonia	Allison-Campbell Div. American Chain & Cable Co., Inc. (abrasive cutting machines and wheels)	Bridgeport	Market Studies and Reports
Pratt & Whitney Co Inc	West Hartford	Coulter & McKenzie Machine Co The (special, new development engineering design and construction)	Bridgeport	Wirth Management Company Wilton
Producto Machine Company The	Bridgeport			Marketing Service
Machine Work				Business Incubation Laboratory Wilton
Banthin Engineering Co	Bridgeport	Machines—Automatic Chucking		Marking Devices
Essex Machine Works Inc	Essex	New Britain-Gridley Machine Division		Cooney Engraving Co Branford
Farrel-Birmingham Company Inc	Ansonia	The New Britain Machine Co (multiple spindle and double end)	New Britain	Hoggson & Pettis Mfg Co The New Haven
Fenn Manufacturing Company The (precision Fuller Brush Co. The (precision contract work)		Pratt & Whitney Co Inc (Potter & Johnson) West Hartford		Parker-Hartford Corporation (steel) Hartford
Hartford parts)	East Hartford			Marking Tools
Hartford Special Machinery Co The (contract work only)	Newington	Machines—Draw Benches		Parker-Hartford Corporation Hartford
McMellon Bros., Inc. (precision threaded parts)	Hartford	Fenn Manufacturing Company The Newington Waterbury Farrel Foundry & Machine Co The Division of Textron Inc	Waterbury	Masonry Products
National Sheradizing & Machine Co. (job)	Bridgeport			Plasticrete Corp Hamden, Hartford, North Haven, Waterbury, Willimantic
Hartford				
New Haven Trap Rock Co The	Machin	Machines—Forming		Materials Handling
North Branford	Products Div	Nilson Machine Company The A H (four-slide wire and ribbon stock)	Shelton	Hayes-Te Equipment Corp Connecticut Con- veyor Division (Conn-Veyor) Unionville
Parker-Hartford Corporation	Hartford			Parsons Co Inc W A (tote pans) Durham
Safety Electrical Equipment Corp	New Haven	Machines—Precision Boring		Mats—Newspaper
Torrington Manufacturing Co The (special roll- ing mill machinery)	Torrington	New Britain-Gridley Machine Division		Lockwood Sons Inc Wm H Hartford
Torrington Co The	Torrington	The New Britain Machine Co New Britain		Mattresses
				Waterbury Mattress Co Waterbury
Machinery		Machines—Paper Ruling		Metal Boxes
Conn Machine Repair Inc	Bridgeport	John McAdams & Sons Inc Norwalk		Durham Mfg Co Durham
(special mfg)				Parsons Co Inc W A (tool kits) Durham
Davis Electric Company (Wire and Cable)	Wallingford	Machines—Precision Boring		Metal Boxes and Displays
Fenn Manufacturing Company The (special)	Newington	New Britain-Gridley Machine Division		Durham Mfg Co The (Designing & Mfg to customers' specifications)
Hallden Machine Company The (mill)	Thomaston	The New Britain Machine Co New Britain		Merrimac Mfg Co Bond, Security, Cash, Util- ity, Personal Files, Drawer Safes, Custombilt containers and displays)
Torrington Manufacturing Co The (mill)	Torrington	Machines—Rolling		Durham
Waterbury Farrel Foundry & Machine Co The		Fenn Manufacturing Company The Newington		
Division of Textron Inc (metal working)	Waterbury			
Machinery—Automatic		Machines—Slotting		Metal Cleaners
Banthin Engineering Company (new and re- built)	Bridgeport	Waterbury Farrel Foundry & Machine Co The Division of Textron Inc (screw head)	Waterbury	Apothecaries Hall Company Division The Hubbard Hall Chemical Company Waterbury
Machinery—Automatic Feeding				Enthone Inc New Haven
Technical Design and Development Co Inc	Milford	Machines—Special		MacDermid Incorporated Waterbury
		Fenn Mfg Co The Newington		
Machinery—Bolt and Nut		Fuller Brush Co The East Hartford		
Waterbury Farrel Foundry & Machine Co The				
Division of Textron Inc	Waterbury			
Machinery—Cold Heading		Machines—Swaging		Metal Finishes
Waterbury Farrel Foundry & Machine Co The		Shuster Wire Machine Div. Mettler Machine Tool, Inc. New Haven		Enthone Inc Mitchell-Bradford Chemical Co New Haven
Division of Textron Inc	Waterbury	Waterbury Farrel Foundry & Machine Co The		Mitrell
		Division of Textron Inc Waterbury		
Machinery Dealers & Rebuilders		Machines—Thread Rolling		Metal Finishing
Bottwick Brothers	New Haven	Shuster Wire Machine Div. Mettler Machine Tool, Inc. New Haven		Contract Plating Co., Inc. Stratford
Bristol Metal Working Equipment	East Hartford	Waterbury Farrel Foundry & Machine Co The		Hartford Industrial Finishing Co Hartford
Conn Machine Repair Inc	Bridgeport	Division of Textron Inc Waterbury		National Sheradizing & Machine Co Stamford
J L Lucas and Son	Fairfield			Stamford Polishing & Plating Corp. Stamford
State Machinery Co Inc	New Haven			Waterbury Plating Company Waterbury
Machinery—Extruding		Machines—Turks Head		
Standard Machinery and Davis-Standard		Fenn Manufacturing Company The Newington Waterbury Farrel Foundry & Machine Co The		Metal Formings
Divisions of Franklin Research Corp	Mystic	Division of Textron Inc Waterbury		Master Engineering Company West Cheshire Oakville Co. Div. Scovill Mfg. Co. Oakville Stanley Pressed Metal New Britain

CONNECTICUT PRODUCTS AND SERVICES

Metalurgists		Model Work	
Bridgeport Testing Laboratory Inc	Bridgeport	B & N Tool & Engineering Co (instruments and timing devices)	Thomaston
Metal Mouldings		Mold Frames	
Leed Co The H A	Hamden	Superior Steel Products Corp.	Cheshire
Metal Powder Products		Molded Fiberglass Products	
Norwalk Powdered Metals Inc	Norwalk	Fiberglass Products Eng. Co.	South Norwalk
Metal Products—Stampings		Moldings—Powder Metal Materials	
American Brass Company The	Waterbury	American Sinterings Div. Engineered Plastics	Watertown
Plume & Atwood Manufacturing Co			
J H Sessions & Son	Thomaston		
Scovill Manufacturing Company	Bristol		
Order)	(Made-to-Waterbury		
Stanley Pressed Metal	New Britain		
Metal Specialties		Mops	
Excelsior Hardware Co The	Stamford	Fuller Brush Co. The (wet and dry mops and dusters)	East Hartford
Torrington Co The	Torrington		
Metal Spinning		Motion Picture Equipment	
Moseley Metal Crafts Inc	West Hartford	Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors film splicers and rewinders)	Plainville
Metal Stampings		Motion Pictures	
American Brass Company The	Waterbury	Cine-Video Productions Inc	Milford
Better Formed Metals Inc	Waterbury		
Cly-Del Manufacturing Co	Waterbury		
Doo-Val Tool & Mfg Inc The	Naugatuck		
Excelsior Hardware Co The	Stamford		
Greist Mfg Co The	New Haven		
H C Cook Co The	Ansonia		
Stanley Humason Inc	Forestville		
Mohawk Mfg Co (threaded)	Middletown		
North & Judd Manufacturing Co	New Britain		
J A Otterbeam Company The (metal fabrications)	Middletown		
J H Sessions & Son	Bristol		
Patent Button Co The	Waterbury		
Plume & Atwood Mfg Co The	Thomasaston		
Saling Manufacturing Company	Unionville		
Stanhelm Mfg. Co.	Bristol		
Terryville Manufacturing Co	Terryville		
Wasley Products Inc	Plainville		
Waterbury Companies, Inc.	Waterbury		
Waterbury Lock & Specialty Co The	Milford		
Meters—Gas		Motor Drives	
Sprague Meter Company	Bridgeport	Electronic Controls, Inc. (adjustable speed)	Stamford
Meters—Parking			
Rhodes Inc M H	Hartford		
Microfilming			
American Microfilming Service Co	New Haven		
Cine-Video Productions Inc	Milford		
Microfilm—Reader-Printer			
Thermo-Fax Sales of Conn., Inc.	New Haven		
Micrometers			
Slocum Co The J T	Glastonbury		
Mill Machinery			
Torrington Manufacturing Company The	Torrington		
Waterbury Farrel Foundry & Machine Co The	Waterbury		
Division of Textron Inc			
Milling Machines			
Pratt & Whitney Co Ine (Keller Tracer—Controlled Milling Machines)	West Hartford		
Rowbottom Machine Company Inc (cam)	Waterbury		
Mill Products			
Scovill Manufacturing Company (aluminum, brass, bronze, nickel silver—sheet, rod, wire, tube)	Waterbury		
Mill Supplies			
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown		
Hartford Builders Finish Co	Hartford		
Millwork			
Miniature Precision Connectors			
Gorn Electric Co	Stamford		
Minute Minders			
Lux Clock Mfg Co The	Waterbury		
Mirror Rosettes and Hangers			
Waterbury Companies Inc	Waterbury		
Missile Details			
Tag Alloy Welding & Mfg. Co., Inc. (weldments)	Glastonbury		
Mixing Equipment			
Alsop Engineering Co	Milldale		
Eastern Industries Inc	New Haven		
Nuts, Bolts and Washers			
Clark Brothers Bolt Co			Milldale
Hartford Machine Screw Co Div of Standard Screw Co			Hartford
Torrington Co The			Torrington
Office Equipment			
Pitney-Bowes Inc			Stamford
Thermo-Fax Sales of Conn., Inc.			New Haven
Underwood Corporation			Hartford
Wassell Organization Inc			Westport
Office Printing			
Kellogg & Bulkeley A Division of Printers Inc			Hartford
Offset Printing			
City Printing Co The			New Haven
Oil Burners			
Miller Company The (domestic)			Meriden
Peabody Engineering Corp (Mechanical and/or Steam Atomizer)			Stamford
Silent Glow Oil Burner Corp The			Hartford
Oil Tanks			
Norwalk Tank Co. Div. Mersick Industries, Inc.			South Norwalk
Whitlock Manufacturing Co The			Hartford
Oils—Cutting			
Anderson Oil and Chemical Company Inc			Portland
Optical Cores & Ingots			
Plume & Atwood Mfg Co The			Thomaston
Optical Instruments			
Barnes Engineering Co. (and systems)			Stamford
Otis Woven Awning Stripes			
The Falls Company			Norwich
Ovens			
Rockwell Co., W. S. (industrial)			Fairfield
Ovens—Electric			
Bauer & Company Inc			Hartford
Packaging			
Commerce Packaging Corporation (military, commercial & export canning & crating)			Stamford
Packaging—Engineering			
Commerce Packaging Corp			Stamford
Progressive Packaging Corp (military & commercial for domestic and export packaging, canning, crating and shipping)			East Haven
Packaging & Packing			
Commerce Packaging Corp			Stamford
Mercer & Stewart Co The			Hartford
Packing			
Auburn Manufacturing Company The (leather, rubber, asbestos, fibre)			Middletown
Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet)			Bridgeport
Padlocks			
Sargent & Company			New Haven
Waterbury Lock & Specialty Co The			Milford
Pads—Office			
The Baker Goodyear Company			Branford
Paints			
Tredennick Paint Manufacturing Co The			Meriden
Panelyte			
Leed Co The H A			Hamden
Pants			
Moore Special Tool Co (crush wheel dresser)			Bridgeport
Paperboard			
Continental Can Co., Boxboard and Folding Carton Division			Montville
Federal Paper Board Co Inc			New Haven
New Haven Board & Carton Co The			New Haven
Robertson Paper Box Co			Montville
Paper Boxes			
Atlantic Carton Corp (folding)			Norwich
National Folding Box Co Div Federal Paper Board Co Inc (folding)			New Haven
New Haven & Versailles			Bristol
Mills Inc H J			New Haven
New Haven Board & Carton Co The			New Haven
Robertson Paper Box Co (folding)			Montville

CONNECTICUT PRODUCTS AND SERVICES

Paper Boxes—Folding and Setup		Pipe		Plastic Wire Coating Materials
Bridgeport Paper Box Company M Backers' Sons Inc	Bridgeport Wallingford	American Brass Co The (brass and copper) Chase Brass & Copper Co (red brass and copper) Howard Co (cement well and chimney)	Waterbury Waterbury New Haven	Electronic Rubber Co Stamford
Paper Clips	Ansonia	Pipe Fittings	Branford	Plastics
H C Cook Co The (steel)		Malleable Iron Fittings Co		Naugatuck Chemical Division United States Rubber Co Naugatuck (Advt.)
Paper Fasteners	Oakville	Pipe Organs	Hartford	Plastics & Resins
Oakville Co. Div. Scovill Mfg. Co.	Oakville	Austin Organs, Inc.		American Cyanamid Co Plastics & Resins Div Wallingford
Paper Mill Machinery	Ansonia	Pipe Plugs	Hartford	Plastics—Moulds & Dies
Farrel-Birmingham Company Inc		Hartford Machine Screw Co Div of Standard Screw Co		Crown Tool & Die Co Inc Bridgeport
Paper Products	Plainville	Pipe Plugs—Socketed	Hartford	Plasticrete Block
Nu-Wipe, Inc. (toweling, dusting, polishing, finishing, packaging)		Hartford Machine Screw Co Div of Standard Screw Co		Plasticrete Corp Hamden, Hartford, North Haven, Waterbury, Willimantic
Paper—Shredded		Pistol & Revolvers	Hartford	Platers
Nielsen & Sons Inc John R	South Windsor	Colt's Patent Fire Arms Mfg Co Inc		Acme Chromium Plating Co New Haven
Paper Tubes and Cores		Plant Protection		Christie Plating Co Groton
Sonoco Products Co (Climax-Lowell) Div	Mystic	Interstate Industrial Protection Co	Bridgeport	Chromium Process Company The (Chromium Plating only)
Parallel Tubes		Plastic Blister Packaging		Water Plating Company Waterbury
Sonoco Products Co (Climax-Lowell) Div	Mystic	Commerce Packaging Corporation (ball bearings & small parts)	Stamford	Platers' Equipment
Parking Meters	Hartford	Plastic Bottles	Bloomfield	Apothecaries Hall Company Waterbury
Rhodes Inc M H		Plastic Buttons		Enthone Inc New Haven
Parts		Frank Parizek Manufacturing Co The West Willington		Lea Manufacturing Co The Waterbury
Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Plastic Engraving		MacDermid Incorporated Waterbury
Scovill Manufacturing Company (ammunition, electric instrument, electrical appliance, fountain pen, instrument, lighting fixture, ordnance, etc.—blanked, stamped, formed, drawn, re-drawn, forged, screw machined, headed, pointed, finished)	Waterbury	New England Engraving Co Div of Dura Plastics of New York Inc	Westport	Platers Metal
Torrington Co The	Torrington	Salisbury Products Inc	Lakeville	Plume & Atwood Mfg Co The Thomaston
Penlights		Plastic Extruders		Plating
Bridgeport Metal Goods Mfg Co	Bridgeport	Danielson Mfg Co The (nylon and other engineering plastics)		Christie Plating Co The (including lead plating)
Perfumes		Jessell Plastics Div of The Electric Storage Battery Co	Kensington	Giering Metal Finishing Inc Hamden
Chesebrough-Pond's, Inc.	Clinton	Plastic Fabrication		Roberts Plating Company Naugatuck
Personnel Consultants		Dura Plastics of New York Inc	Westport	Superior Plating Co Bridgeport
Snelling & Snelling Wirth Management Company	Hartford Wilton	Fabricron Corp	Unionville	Tec-Plate Inc Windsor Locks
Personnel Recruiting		New England Rack Co., Inc. (hood & duct systems, tanks, etc.)	Hamden	Plating Processes and Supplies
Administrative-Technical Personnel (executive)	Service Hartford	Salisbury Products Inc	Lakeville	Enthone Inc New Haven
Pet Furnishings		Plastic Film & Sheet Materials		Seymour Manufacturing Co The Seymour
Andrew B Hendrix Co The	New Haven	Gilman Brothers Co The	Gilman	State Testing Laboratory Inc (plating analyses) Bridgeport
Phosphate Coating		Plax Corporation	Bloomfield	Plating Racks
Black Oxide, Inc.	New Britain	Plastic Forming		New England Rack Co., Inc. (anodizing, conveyor, etc.) Hamden
Phosphor Bronze		Dura Plastics of New York Inc	Westport	Plumbers' Brass Goods
American Brass Company The	Waterbury	Plastic Lining Equipment		McGuire Mfg. Co Waterbury
Miller Company The (sheets, strips, rolls)		Enthone Inc	New Haven	Scovill Manufacturing Company Waterbury
Meriden Waterbury Rolling Mills Inc (sheets, strips, rolls)	Meriden Waterbury	Plastic Material		Plumbing Specialties
Western Brass Mills Div Olin Mathieson Chemical Corp (sheets, strip)	New Haven	Dura Plastics of New York Inc (sheet, rod & tube)	Westport	Risdon Manufacturing Co John M Russell Div
Phosphor Bronze Ingots		Plastic Molders		Pneumatic Conveyors
Whipple and Chonte Company The	Bridgeport	B & B Plastics, Inc.	Oakville	Spencer Turbine Co The Hartford
Photo Engraving		Butterfield Inc T F	Naugatuck	Pole Line Hardware
Dowd Wyllie & Olson Inc	Hartford	Coggins Mfg. Co., The J. B.	Meriden	Malleable Iron Fittings Co Branford
Wilcox Photo Engraving Co Inc	New Haven	Conn Plastics	Waterbury	Police Equipment
Photocopy Equipment and Supplies		Danielson Mfg Co The (nylon and other engineering plastics)	Other	The Smith-Worthington Saddlery Co Hartford
Ludwig Inc F G	Old Saybrook	Engineered Plastics Inc	Danielson	Polishing
Photographic Equipment		Plastic Molding Corporation	Watertown	C & E Metal Finishing Co Hartford
Electrical Div Olin Mathieson Chemical Corp	New Haven	Rogers Manufacturing Co The	Sandy Hook	Mirror Polishing & Buffing Co Waterbury
Kalart Company Inc	Plainville	Specialty Plastics Corp (custom)	Rockfall	Postage Meters
Piano Repairs		Stanley Chemical Co The	Shelton	Pitney Bowes Inc Stamford
Pratt Read & Co Inc (keys and action)	Ivoryton	U S Plastic Molding Corporation	East Berlin	Potentiometers—Electronic
Piano Supplies		Waterbury Companies Inc	Wallingford	Bristol Company The Waterbury
Pratt Read & Co (keys and actions, backs, plates)	Ivoryton	Waterbury Mfg Co The	Waterbury	Power Wrenches
Pillow Blocks		Plastic Packages		Cushman Chuck Co. Hartford
New Departure Div of General Motors (ball)	Bristol	Robertson Paper Box Co., Inc. (plastic trays)	Montville	Precision Machining
Pins		Plastic Pipe and Fittings		National Tool & Die Co Hartford
CEM Company ("Spirol")	Danielson	Colonial Blower Co	Plainville	Precision Machine Tool Spindles
Hartford Machine Screw Co Div of Standard Screw Co	Hartford	Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Whiton Manufacturing Co (for milling, grinding, boring & drilling) Farmington
Oakville Co. Div. Scovill Mfg. Co. (safety & straight)	Oakville	Enthone Inc	New Haven	Precision Manufacturing
Torrington Co The (Dowel & Taper)	Torrington	Plastic Printing Plates		American Standard Products, Inc. Hartford
Pins—Common		Lockwood Sons Inc Wm H	Hartford	Hartford Machine Screw Co Div of Standard Screw Co Hartford
Union Pin Co., The	Winsted	Plastic Rod		Torrington Co The Torrington
Pins—Plastic Heads		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Precision Revolving Machinery
Union Pin Co., The	Winsted	Plastic Strip		Milford Fabricating Co Milford
Plastic Tubing		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Precision Sheet Metal Fabrication
Danielson Mfg Co The (nylon and other engineering plastics)		Plastic Tubing		Rowley Spring Co Inc The Bristol
Danielson Mfg Co The (nylon and other engineering plastics)		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Precision Springs & Wire Forms
Darwforth Incorporated ("Cuprinol") ("Cellu-san")		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Waterbury Companies Inc Waterbury
Preservatives—Wood, Rope, Fabric		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Premium Specialties
"Cellu-san")		Danielson Mfg Co The (nylon and other engineering plastics)	Danielson	Darwforth Incorporated ("Cuprinol") ("Cellu-san") Simsbury

CONNECTICUT PRODUCTS AND SERVICES

Case Brothers, Inc. (genuine)	Pressboard	Manchester	Radiation-Finned Copper	Milford	Rivet Setting Machines
Case & Risley Press Paper Co (genuine)		Oneida	Bush Manufacturing Co	West Hartford	Rivets
Farrel-Birmingham Company Inc (Hydraulic)	Presses	Ansonia	G & O Manufacturing Company The	New Haven	American Brass Company The (copper, brass, bronze)
Pneumatic Applications Co The (modernization of presses through conversion to Wichita Air Clutch operation)	Presses—Power	Simsbury	Vulcan Radiator Co	Hartford	Bristol Brass Corp The (brass and bronze)
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc		Waterbury	The (steel and copper)		Bristol
Norwalk Tank Co. Div. Mersick Industries, Inc.	Pressure Vessels	South Norwalk	Radiators—Engine Cooling	New Haven	Scovill Manufacturing Company (aluminum, brass, bronze, etc.)
Roloek Inc		Hartford	G & O Manufacturing Co	New Haven	Waterbury
Whitlock Manufacturing Co The			Ratchet Offset Screw Driver	Durham	
Allied Printing Service Inc	Printing	Manchester	Rayon Staple Fiber		Rollers—Bituminous Paving
Bussmann Press Inc		New Haven	Hartford Fibres Co div Bigelow	Sanford Co	Gabb Special Products Div E Horton & Son Company
City Printing Co The		New Haven	The	Rocky Hill	Windsor Locks
Connecticut Printers, Inc.		Hartford			
Finlay Brothers		Hartford	Reamers	Cowles & Co., C. (and mouldings)	New Haven
Heminway Corporation The		Waterbury	Atrax Company The (solid carbide)	Newington	
Hildreth Press		Bristol	Pratt & Whitney Co Inc (All types)	West Hartford	
Hunter Press		Hartford	Pratt & Whitney Co Inc (all types carbide and HSS)	West Hartford	
Lehman Brothers Inc		New Haven	Reamers—Helical	Manchester	Roller Skate Wheels
Miller-Johnson, Inc		Meriden	Gammons-Hoaglund Co., The	Manchester	Raybestos Division of Raybestos-Manhattan Inc Bridgeport
Taylor & Greenough Co The		Wethersfield	Reamers—Machine	Manchester	
T B Simonds Inc		Hartford	Gammons-Hoaglund Co., The	Manchester	Rolling Mills & Equipment
A D Steinbach & Sons		New Haven	Reamers—Taper	Manchester	Fenn Mfg Co The
The Walker-Rackliff Company		New Haven	Record Equipment	Westport	Precision Methods & Machines Inc
Typo Press (and lithographing)		Bridgeport	Wassell Organization Inc (filing equipment)		Waterbury Farrel Foundry & Machine Co The
Banthin Engineering Co (automatic)	Printing Machinery	Bridgeport	Recorders	Waterbury	Division of Textron Inc
Ads Inc Div CSW Plastic Types Inc (mats services)	Printing Plates	Rocky Hill	Recording Machines	Bridgeport	Waterbury
Lockwood Sons Inc Wm H		Hartford	Snow-Nabstedt Gear Corp The	New Haven	
Chambers-Storey Company Inc The (engraved)	Printing Rollers	Norwich	Reduction Gears		
Ad-Craft Displays Inc	Printing—Silk Screen	Bloomfield	Bridge Mfg. Co. The (for wire and cable)	Hazardville	
House Co N. E. (Assembly, Stampings, Drilling & Tapping)	Production	East Hampton	Refractories		
Ripley Company Inc	Production Control Equipment	Middletown	Howard Company	New Haven	Rubber Chemicals
Wassell Organization Inc		Westport	Mullite Works Refractories Div	H K Porter	Naugatuck Chemical Division United States
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Propellers—Aircraft	Windsor Locks	Co Inc	Shelton	Rubber Co
Alsold Engineering Co			Dunham-Bush Inc	West Hartford	Stamford Rubber Supply Co The ("Fattice" Vulcanized Vegetable Oils)
Sonic Engineering Corp.		Milldale			Naugatuck
Sump Pumps Inc (Deep-well electro-submersible)	Pumps	Stamford	Refrigeration Condensing Units		(Advt.)
Hoggson & Pettis Mfg Co The (ticket & cloth)	Pumps—Small Industrial	New Haven	Brunner Division of Dunham-Bush Inc	West Hartford	
Hartz-Miller Associates	Purchasing Service—Industrial	Meriden	Refrigeration Service	Hartford	Rubber Latex Compounds and Dispersions
Fletcher Terry Co The	Putty Softeners—Electrical	Forestville	Hartford Refrigeration Service, Inc.	Hartford	Naugatuck Chemical Division United States
Bristol Co The (recording and controlling)	Pyrometers	Waterbury	Relays	Plantsville	Rubber Co (coating, impregnating and adhesive compounds)
			HB Motion Picture Service (audio-visual equip.—all types)	New Haven	Naugatuck (Advt.)
			Research & Development		
			Continental Engineering Corporation		
			Raymond Engineering Laboratories (Electro-Mechanical)	Farmington	Rubber Machinery
			State Testing Laboratory Inc (chemical/physical testing)	Middletown	Farrel-Birmingham Company Inc
			C O Jellif Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum)	Bridgeport	Ansonia
			Kanthal Corporation The	Southport	
			Resistors	Stamford	
			American Optical Company Safety Products Division	Putnam	
			Hartford Steel Ball Co The (bicycle & automotive)	Hartford	
			Lacey Manufacturing Co, The (precision ball bearing)	Bridgeport	
			Rigid Plastic Sheet Material	Gilman	
			Gilman Brothers Company The	Gilman	
			Riveting Machines		
			Grant Mfg & Machine Co The	Bridgeport	
			Linley Brothers Company	Bridgeport	
			Patent Button Co The (automatic)	Waterbury	
			Ripley Company Inc	Middletown	
			H P Townsend Manufacturing Co The	Elmwood	
			Rivets		
			Clark Brothers Bolt Co	Milldale	
			Millford Rivet & Machine Co The	Millford	
			Plume & Atwood Mfg Co The	Thomaston	
			Raybestos Div of Raybestos-Manhattan Inc The (brass and aluminum tubular and solid copper)	Bridgeport	
			Raybestos Div of Raybestos-Manhattan Inc The (iron)	Bridgeport	
			Rust Preventives		
			Anderson Oil and Chemical Company Inc		
			Enthone Inc	New Haven	
			Rust Removers		
			Enthone Inc	New Haven	
			Saddlery		
			The Smith-Worthington Saddlery Co	Hartford	
			Safety Belts		
			Russell Mfg Co	Middleton	

CONNECTICUT PRODUCTS AND SERVICES

Safety Clothing
American Optical Company Safety Products Division Putnam

Safety Fuses
Ensign-Bickford Co The (mining & detonating) Simsbury

Safety Gloves and Mittens
American Optical Company Safety Products Division Putnam

Safety Goggles
American Optical Company Safety Products Division Putnam

Sales Promotion
Langeler-Stevens, Inc. Orange

Salvage Service
Walton Co., The (broken tools extracted) West Hartford

Saw Blades—Hack
Capewell Mfg Co The Hartford

Saw Blades—Hack & Band
Capewell Manufacturing Company Hartford
Thompson & Son Co The Henry G New Haven

Saws, Band, Metal Cutting
Atlantic Saw Mfg Co New Haven
Capewell Manufacturing Co The Hartford

Saws—Hole
Capewell Manufacturing Co The Hartford
Thompson & Son Co The Henry G New Haven

Sawdust
Nielson & Sons Inc John R (graded hardwood and softwood) South Windsor

Scissors
Acme Shear Company The Bridgeport

Screens
Hartford Wire Works Co The (Windows, Doors and Porches) Hartford
Norlee Aluminum Prod Corp Bloomfield

Screw Caps
Weimann Bros Mfg Co The (small for bottles) Derby

Screw Machines
H P Townsend Mfg Company The Elmwood

Screw Machine Products
Accurate Screw Products Inc (B & S Swiss & Davenports) Southington
American Standard Products, Inc. Hartford
Apex Tool Co Inc The Bridgeport
Auto Electric Screw Machine Co Inc Bridgeport

Bell Enterprise Inc Deep River
Brown Manufacturing Co (up to 1½" capacity) Plainville

Consolidated Industries West Cheshire
Easterly Machine Screw Corp The New Haven
Fairchild Screw Products Inc Winsted
Franklin Screw Machine Co. Hartford
Garthwait Mfg Co A E (up to and incl 1½") Waterbury

Greist Mfg Co The (up to 1½" capacity) New Haven

Hartford Machine Screw Co Div of Standard Screw Co (up to 6" capacity) Hartford
Horberg Grinding Industries Inc (heat treated and ground type only) Bridgeport
Stanley Humason Inc Forestville
Independent Screw Company (up to and incl 1½" capacity) West Hartford
Junior Screw Machine Products Inc West Haven

Lowe Mfg Co The Wethersfield
Main Screw Machine Products (davenport & automatics exclusively) Waterbury
Mayflower Manufacturing Co. Unionville
National Automatic Products Company The Berlin

Nelson's Screw Machine Products Plantsville
New Britain Machine Company The New Britain
New Haven Screw Machine Prods Inc (up to 1½" capacity) Milford
Newton Screw Machine Products Co Plainville
Olson Brothers Company (up to ¾" capacity) Plainville

Olson & Sons R P Southington
Plume & Atwood Mfg Co The Thomaston
Products Design & Mfg. Corp. (precision) Newington

Scovill Manufacturing Company Waterbury
United Screw Machine Co Thomaston
Waterbury Machine Tools & Products Co (Brown & Sharpe and Davenport) Waterbury

Wheeler & Son, Inc., Frank Meriden

Screw Machine Tools
American Cam Company Inc (Circular Form Tools) Hartford
Cambridge Specialty Co., Inc. (flat & circular form tools) Kensington
Quaker Tool (H.S. cir. form tools) Waterbury
Pratt & Whitney Co Inc (Reamers, Taps, Dies, Blades and Knurls) West Hartford

Screws
Allen Manufacturing Company The Bloomfield
American Screw Company Willimantic
Atlantic Screw Works Hartford
Bristol Company The (socket set and socket cap screws) Waterbury
Clark Bros Bolt Co Inc (cap and lag) Milldale
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Scovill Manufacturing Company Waterbury
Superior Manufacturing Co The Winsted Torrington Co The Torrington

Screws—Socket
Allen Manufacturing Company The Bloomfield
Bristol Co The Waterbury
Hartford Machine Screw Co Div of Standard Screw Co Hartford

Screw Stock
Driscoll Wire Co., The (steel) Shelton

Sealing Tape Machines
Better Packages Inc ("Counterboy," "Tape-shooter," "Big Inch") Shelton
Derby Sealers Inc (gummed and pressure-sensitive tapes) Derby

Screw Threads—Inserts

Heli-Coil Corp Danbury

Seals
Russell Mfg Co (for oven doors and fire bulkheads) Middletown

Sewing Machines
Greist Mfg Co The (Sewing Machine attachments) New Haven
Singer Manufacturing Company The (Industrial) Bridgeport

Sharpeners
Gorn Electric Co Inc (electric knife and scissors) Stamford

Shears
Acme Shear Co The (household) Bridgeport

Sheet Metal Fabrications
Lurie Inc A Bloomfield

Sheet Metal Products
American Brass Co The (brass and copper) Waterbury
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays) Durham
Parsons Co Inc W A (fabricators) Durham
Plume & Atwood Mfg Co The Thomaston
Precision Sheet Metal Fabrication Div Bar-Plate Mfg. Co., Inc. Orange
United Manufacturing Co Division of the W L Maxon Corp Hamden

Sheet Metal Stamping
American Brass Company The Waterbury
American Buckle Co The West Haven
DooVai Tool & Mfg Inc The Naugatuck
J H Sessions & Son Bristol
Plume & Atwood Mfg Co The Thomaston
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys) Waterbury
Terryville Manufacturing Co Terryville

Sheet Steel
Dolan Steel Company Inc Bridgeport

Shell Cores
Victors Brass Foundry Inc Guilford

Shell Molding
Victors Brass Foundry Inc Guilford

Shells
Lakewood Metal Products, Inc. (all metals) Waterbury
Salem Mfg. Co. Prospect
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver—drawn, stamped—electric socket, screw) Waterbury
Terryville Manufacturing Co Terryville
Wolcott Tool and Manufacturing Company Inc Waterbury

Showcase Lighting Equipment
Wiremold Company The Hartford

Signals
H C Cook Co The (for card files) Ansonia

Signs
Ad-Craft Displays Inc (all types, quantity only) Bloomfield
Leonard Sign Co. (neon & factory identification) Hartford

Silk Screen Process Printing
Ad-Craft Displays Inc Bloomfield
Norton Co R H New Haven
Sirocco Screen prints New Haven
Stifel & Kufta Inc New Britain

Silk Screening on Metal
Ad-Craft Displays Inc Bloomfield
Merriam Mfg Co (Displays and Specialties to order) Durham

Silversware
Wallace Silversmiths Inc Wallingford

Simulators
Reflectone Electronics Inc Stamford

Sintered Metal Products
American Plastics Inc (Powder Metal Parts) Waterbury
Raybestos Division of Raybestos-Manhattan Bridgeport

Sizing and Finishing Compounds
American Cyanamid Company Waterbury

Slide Fasteners
G E Prentice Mfg Co The Kensington
Scovill Manufacturing Company (GRIPPER zippers) Waterbury

Smoke Stacks
Norwalk Tank Co. Div. Mersick Industries, Inc. South Norwalk

Snaps
Patent Button Co The (personal, household and industrial) Waterbury
Scovill Manufacturing Company (GRIPPER snap fasteners) Waterbury

Snapout and Continuous Forms
Connecticut Printers, Inc. Hartford

Soap
Fuller Brush Co. The (personal, household and industrial) East Hartford

Socket Cap Screws
Holo-Krome Screw Corp. West Hartford

Socket Pipe Plugs
Holo-Krome Screw Corp. West Hartford

Socket Screw Keys
Holo-Krome Screw Corp. West Hartford

Socket Set Screws
Holo-Krome Screw Corp. West Hartford

Socket Shoulder Screws
Holo-Krome Screw Corp. West Hartford

Sound Equipment
Vinco Electronics Corporation New Haven

Spanner Nuts
McMellon Bros., Inc. Bridgeport

Special Machinery
Banthin Engineering Company (complete and/or parts) Bridgeport

Farrel-Birmingham Company Inc Ansonia
Federal Machine & Tool Co Bristol

Fenn Mfg Co The Newington
Hartford Special Machinery Co The Hartford

H P Townsend Mfg Company The Elmwood
Lacey Manufacturing Co., The Bridgeport

National Sheradizing Machine Co (mandrels & stock shells for rubber industry) Hartford
Tucker Machine Co New Haven

Special Machining
Superior Steel Products Corp. Cheshire

CONNECTICUT PRODUCTS AND SERVICES

Special Parts			
American Standard Products, Inc.	Hartford		
Fenn Mfg Co The	Newington		
Greist Mfg Co The (small machines, especially precision stampings)	New Haven		
Hartford Machine Screw Company			
Div of Standard Screw Co	Hartford		
J H Sessions & Son	Bristol		
Torrington Co The	Torrington		
Spline Milling Machines			
Townsend Mfg Co The HP	Elmwood		
Sporting Goods			
Seamless Rubber Co.	New Haven		
Spotwelding			
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys)	Stratford		
Spouts			
Waterbury Companies, Inc. (for Lighter Fluids and Light Oils)	Waterbury		
Spray Painting			
Stamford Polishing & Plating Corp.	Stamford		
Spray Painting Equipment and Supplies			
Lea Manufacturing Co The	Waterbury		
Spring Coiling Machines			
Torrington Manufacturing Co The	Torrington		
Spring Presses			
Townsend Mfg Co The HP	Elmwood		
Spring Units			
Owen Silent Spring Division American Chain & Cable Company Inc	Bridgeport		
Spring Washers			
Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Terryville Manufacturing Co	Terryville		
Springs			
CE-JA Springs, Inc. (coil & torsion)	Newington		
Springs—Coil & Flat			
Barnes Co The Wallace Div Associated Spring Corp	Forestville		
Barrett Co William L	Bristol		
Bristol Spring Manufacturing Co	Plainville		
Foursome Manufacturing Co	Bristol		
Newcomb Spring Corp The	Southington		
New England Spring Mfg Co	Unionville		
Peck Spring Co The	Plainville		
Stanley Humason Inc	Forestville		
Springs—Flat			
Atlantic Precision Spring Co	Forestville		
Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Bristol Spring Manufacturing Co	Plainville		
Foursome Manufacturing Co	Bristol		
Stanley Humason Inc	Forestville		
New England Spring Mfg Co	Unionville		
Peck Spring Co	Plainville	(Advt.)	
Springs—Wire			
Banner Spring Corporation	Hartford		
Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Bernston Co J W	Plainville		
Bristol Spring Manufacturing Co	Plainville		
Colonial Spring Corporation The	Hartford		
Connecticut Spring Corporation The (compression, extension, torsion)	Hartford		
Foursome Manufacturing Co	Bristol		
Stanley Humason Inc	Forestville		
Newcomb Spring Corp The	Southington		
New England Spring Mfg Co	Unionville		
Peck Spring Co	Plainville		
D R Templeman Co (coil and torsion)	Plainville		
Springs—Wire			
Everett Co., Inc. (coil and torsion)	New Britain		
Terry Spring Company	Terryville		
Springs, Wire & Flat			
Peck Spring Co	Plainville		
Stamped Metal Products			
American Brass Company The	Waterbury		
Stampings			
DooVal Tool & Mfg Inc The	Naugatuck		
Laminated Shim Company Inc	Glenbrook		
Foursome Manufacturing Co	Bristol		
Lacey Manufacturing Co, The (precision sheet metal)	Bridgport		
Plume & Atwood Mfg Co The (small)	Thomaston		
Prentice Mfg Co The G E	Kensington		
Covill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys—automotive, electrical, radio, etc.—deep drawn, enameled)	Waterbury		
Stanley Pressed Metal	New Britain		
Stampings—Small			
Acme Shear Co The	Bridgeport		
Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Barrett Co William L	Bristol		
Bristol Spring Manufacturing Co	Plainville		
Greist Manufacturing Co The	New Haven		
Laminated Shim Company Inc	Glenbrook		
Stanley Humason Inc	Forestville		
Waterbury Companies, Inc.	Waterbury		
Wire Form Inc	Middale		
Stamps			
Ball-Adam Steel Stamp Co (steel)	New Britain		
Hoggson & Pettis Mfg Co The (steel)	New Haven		
Parker-Hartford Corporation (steel)	Hartford		
Schwab & Company (steel)	Bridgeport		
Stamped Assemblies			
Cowles & Co., C.	New Haven		
Stationary Specialties			
American Brass Company The	Waterbury		
Steam Turbines			
Whiton Machine Co.	New London		
Steel Castings			
Malleable Iron Fittings Co	Branford		
New England Alloy Casting Corp (carbon, low alloy and stainless steel castings)	Hartford		
Nutmeg Crucible Steel Co	Branford		
Steel—Cold Rolled Spring			
Barnes Co The Wallace Div Associated Spring Corp	Bristol		
Detroit Steel Corporation	Hamden		
Steel—Cold Rolled Stainless			
Seymour Manufacturing Co The	Seymour		
Ulrich Stainless Steels	Wallingford		
Wallingford Steel Company	Wallingford		
Steel—Cold Rolled Strip			
Detroit Steel Corporation	Hamden		
Steel—Cold Rolled Strip and Sheets			
Wallingford Steel Company	Wallingford		
Steel Flanges			
Ideal Forging Corp. (stainless)	Southington		
Steel Goods			
Merriam Mfg Co (sheets products to order)	Durham		
Steel—Ground Flat Stock			
Thompson & Son Co The Henry G	New Haven		
Steel Rolling Rules			
Waterbury Lock & Specialty Co The	Milford		
Steel—Stainless Alloy and Carbon			
Frasse & Co Inc Peter A	Hartford		
Steel Stamps			
Cooney Engraving Co	Branford		
Stereotypes			
New Haven Electrotype Div	Electrographic Corp	New Haven	
Stop Clocks, Electric			
H G Thompson Clock Co The	Bristol		
Storage Batteries			
R A E Storage Battery Mfg Co	Glastonbury		
Straps, Leather			
Auburn Manufacturing Company	The textile, industrial, skate, carriage)	Middleton	
Strip Steel			
Detroit Steel Corporation	New Haven		
Dolan Steel Company Inc	Bridgport		
Structural Mouldings			
Leed Co The H A	Hamden		
Studio Couches			
Waterbury Mattress Co	Waterbury		
Super Refractories			
Mullite Works Refractories Div H K Porter Co Inc	Shelton		
Surface Metal Raceway & Fittings			
Wiremold Company The	Hartford		
Surgical Dressings			
Acme Cotton Products Co Inc	East Killingly		
Swaging Machinery			
Fenn Mfg Co The	Newington		
Torrington Co The	Torrington		
Waterbury Farrel Foundry & Machinery Co The	Division of Textron Inc	Waterbury	
Sweeping Compounds			
Nielson & Sons Inc John R	South Windsor		
Switches			
Allied Control Co., Inc. (subminiature, toggle & pushbutton)	Plantsville		
Switchboards Wire and Cables			
Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (asbestos insulated)	New Haven		
Tableware—Stainless Steel			
Wallace Silversmiths Inc	Wallingford		
Tableware—Sterling Silver			
Wallace Silversmiths Inc	Wallingford		
Tabulating Equipment—Manual			
Denominator Company Inc	Woodbury		
Veeder-Root Incorporated	Hartford		
Tanks			
Acme Welding Div United Tool & Die Co	West Hartford		
Alsop Engineering Co	Middale		
Bigelow Company The (steel)	New Haven		
Comeo Inc Div of Enthone Inc (steel, alloy and lined)	New Haven		
Colonial Blower Co (steel and alloy)	Plainville		
Connecticut Welders Inc (steel, alloy & lined)	Wallingford		
Enthonie Inc	New Haven		
Norwalk Tank Co. Div. Mersick Industries, Inc.	South Norwalk		
Roleck Inc (Alloy)	Fairfield		
Storts Welding Company (steel and alloy)	Meriden		
Tape			
Russell Mfg Co (Glass Electrical Insulating Tapes, Glass Fabrics for Plastic Moulding)	Middletown		
Tape Machines			
Better Packages Inc (Manual and electric models for case taping)	Shelton		
Derby Sealers Inc (manual and electric models)	Derby		
Tape			
Hanson-Whitney Company The	Hartford		
Pratt & Whitney Co Inc	West Hartford		
Tap, Drill & Stud Removal			
Walton Co., The	West Hartford		
Tap Extractors			
Walton Co., The (and extensions)	West Hartford		
Tarred Lines			
Brownell & Co Inc	Moodus		
Telemetering Instruments			
Bristol Co The	Waterbury		
Television—Radio			
Junior Screw Machine Products Inc	West Haven		

CONNECTICUT PRODUCTS AND SERVICES

Temperature Controllers		Tissue	
Electronic Controls, Inc.	Stamford	Sanitary Paper Mills, Inc. (Dovallettes facial, bathroom and handkerchiefs)	East Hartford
Terminals		Tires	
Waterbury Companies, Inc.	Waterbury	Armstrong Rubber Company The	West Haven
Testers—Insulation Wire & Cable		Toiletries	
Davis Electric Company	Wallingford	Chesebrough-Pond's, Inc.	Clinton
Testers—Nondestructive, Ultrasonic		Tool Chests	
Branson Instrument Inc	Stamford	Vanderman Manufacturing Co The	Willimantic
Sperry Products Inc	Danbury	Tool Hardening	
Testing		Commercial Metal Treating Co.	Bridgeport
American Metaseal, Inc. (pressure)	Hamden	Tools	
State Testing Laboratory Inc (environmental, X-ray, tensile, bearings)	Bridgeport	B & N Tool & Engineering Co (dies, jigs, fixtures, sub-press and progressive)	Thomaston
Textile Printing Gums		Hoggson & Pettis Mfg Co The (rubber workers)	New Haven
Polymer Industries Inc	Springdale	Metropolitan Tool & Die	Hartford
Textile Processors		Lacey Manufacturing Co., The	Bridgeport
Amerbelle Corporation	Rockville	Moore Special Tool Co	Bridgeport
Thermometers		Tools, Dies & Fixtures	
Bristol Co The (recording and automatic control)	Waterbury	Greist Mfg Co The	New Haven
Manning Maxwell & Moore Inc	Stratford	Tools, Dies, Jigs & Fixtures	
Thin Gauge Metals		Fairfield Tool Co., Inc. The	Bridgeport
Plume & Atwood Mfg Co The	Thomaston	Lyons Tool & Die (modelwork, jig boring)	Meriden
Thinsheet Metals Co The (plain or tinned rolls)	Waterbury	Otterbein Co J A	Middletown
Thread		RSV Engineering Co (gages)	Wethersfield
American Thread Co The	Willimantic	Telke Tool & Die Mfg Co	Kensington
Belding Heminway Corticelli	Putnam	Tools, Fixtures, Gauges	
Threading		Fredericks Tool Co J F	West Hartford
Products Design & Mfg. Corp.	Newington	Totalizers	
Thread Chasers		Reflectone Electronics, Inc.	Stamford
Geometric Tool Division Greenfield Tap & Die Corp	Tap & Die	Toys	
	New Haven	Geo S Scott Mfg Co The	Wallingford
Thread Gages		Gilbert Co The A C	New Haven
Hanson-Whitney Company The	Hartford	Gong Bell Mfg Co	East Hampton
Pratt & Whitney Co Inc	West Hartford	N N Hill Brass Co The	East Hampton
Thread Milling		Terryville Manufacturing Co. (stampings for)	Terryville
McMellon Bros., Inc.	Bridgeport	U S Plastic Molding Corp	Wallingford
Thread Milling Machines		Waterbury Companies Inc	Waterbury
Pratt & Whitney Co Inc	West Hartford	Transformers	
Thread Repair Kits		Monarch Electric Co (Allis Chalmers)	New Britain
Heli-Coil Corp	Danbury	Trucks—Commercial	
Thread Rolling Machinery		Metropolitan Body Company (International Harvester Truck chassis and "Metro" bodies)	Bridgeport
Hartford Special Machinery Co. (flat die)	Hartford	Track—Lift	
Shuster Wire Machine Div. Mettler Machine Tool, Inc.	New Haven	Excelsior Hardware Co The	Stamford
Waterbury Farrel Foundry & Machine Co The	Waterbury	Trucks—Skid Platforms	
Division of Textron Inc	Waterbury	Excelsior Hardware Co The (lift)	Stamford
Threading Machines		Tube Clips	
Grant Mfg & Machine Co The (double end automatic)	Bridgeport	Weinmann Bros Mfg Co The (for collapsible tubes)	Derby
Timers, Interval		Tube Fittings	
A W Haydon Co The	Waterbury	Scovill Manufacturing Company (UNIFLARE flared tube and LOXIT compression tube)	Waterbury
H C Thompson Clock Co The	Bristol	Tubers	
Cramer Controls Corporation The	Centerbrook	Standard Machinery and Davis-Standard Divisions of Franklin Research Corp	Mystic
Rhodes Inc M H	Hartford	Tubes—Collapsible Metal	
United States Time Corporation The	Waterbury	Sheffield Tube Corp The	New London
Timing Devices		Tubing	
B & N Tool & Engineering Co (development and model work)	Thomaston	American Brass Co The (brass and copper)	Waterbury
Cramer Controls Corporation The	Centerbrook	G & O Manufacturing Co (finned)	New Haven
A W Haydon Co The	Waterbury	Scovill Manufacturing Company (Brass and Copper)	Waterbury
Lux Clock Manufacturing Company	Waterbury	Wallingford Steel Co The (stainless and super metals)	Wallingford
Rhodes Inc M H	Hartford		
United States Time Corporation The	Waterbury		
Timing Devices & Time Switches			
A W Haydon Co The	Waterbury		
Lux Clock Manufacturing Company	Waterbury		
M H Rhodes Inc	Hartford		
Tinning			
Thinsheet Metals Co The (non-ferrous metals in rolls)	Waterbury		
Wilcox-Crittenden Div North & Judd Mfg Co	Middletown		

CONNECTICUT PRODUCTS AND SERVICES

Velvets		Welding—Lead		Wire Forms
American Velvet Co (owned and operated by A Wimpfheimer & Bros Inc)	Stonington	Connecticut Welders Inc (tanks & coils)	Wallingford	Atlantic Precision Spring Co
Leiss Velvet Mfg Co Inc The	Willimantic	Lead Products Inc (tanks and fabrication)	Manchester	Banner Spring Corporation
		Storts Welding Company (tanks, coils & anodes)	Meriden	Barnes Co The Wallace Div Associated Spring Corp
Venetian Blinds				Bristol Spring Manufacturing Co
Findell Manufacturing Company	Manchester	Welding—Lead Bricks	Manchester	Plainville
Jennings Company The S Barry	New Haven	Lead Products Inc	Manchester	Colonial Spring Corporation The
				Connecticut Spring Corporation The
Ventilating Systems				Hartford
Colonial Blower Company	Plainville			Foursome Manufacturing Co
Ventilating Supplies Inc	Plainville			Gemco Manufacturing Co Inc
				Stanley Humason Inc
Vibration Detection Equipment				New England Spring Mfg Co
Advanced Electronics, Inc.	Rocky Hill			Peek Spring Co
				Templeman Co D R
Vibrators—Pneumatic				Terryville Manufacturing Co
Branford Co The (industrial)	New Britain			Wire Form Inc
Vinyl Extrusion & Moulding Compounds		Welding Solder		Wire Goods
Electronic Rubber Co	Stamford	Lead Products Inc (wire, bar and cakes and babbitts)	Manchester	American Buckle Co The (overall trimmings)
				West Haven
Vise Fixtures				Scovill Manufacturing Company (To order)
Dery & Sons Tool & Die Co A L	Pine Meadow			Waterbury
(gang with loading trays)				
Vise Jaws		Wells		Wire Partitions
Dery & Sons Tool & Die Co A L	Pine Meadow	Auburn Manufacturing Company The	Seymour	Hartford Wire Works Co The
(gang with loading trays)		(felt, asbestos)		John P Smith Co The
		Holyoke Heater Corp of Conn Inc	Hartford	New Haven
Vises				Torrington
Fenn Manufacturing Company The (Quick- Action Vises)	Newington	Window & Door Guards		
Vanderbilt Manufacturing Co The (Combi- nation Bench Pipe)	Willimantic	Hartford Wire Works Co The	Hartford	
		Smith Co The John P	New Haven	
Wall Paper				
Stamford Wall Paper Co Inc	Stamford			
Washers		Wire		
American Felt Co (felt)	Glenville	American Brass Company The	Waterbury	Nilson Machine Company The A H Shelton
Auburn Manufacturing Company The (all materials)	Middleton	Atlantic Wire Co The (steel)	Branford	Shuster Wire Machine Div. Mettler Machine Tool, Inc.
Fabricron Corp	Unionville	Bartlett Hair Spring Wire Co The	North Haven	New Haven
Plume & Atwood Mfg Co The (brass & copper)	Thomaston	Bristol Brass Corp The (brass & bronze)	Bristol	Waterbury Farrel Foundry & Machine Co The
Terryville Manufacturing Co (Made to order— all metals)	Terryville	Driscoll Wire Co The (steel)	Shelton	Division of Textron Inc Waterbury
		Hudson Wire Co Winsted Div (insulated & enameled magnet)	Winsted	
Washers—Felt		Platt Bros & Co The		
Chas W House & Sons Inc (Mills & Cutting Plant)	Unionville	(zinc and zinc alloy wires)	Waterbury	
		Plume & Atwood Mfg Co The (brass, bronze, nickel silver)	Thomaston	
Watches		Scovill Manufacturing Company (Brass, Bronze and Nickel Silver)	Waterbury	
E Ingraham Co The	Bristol	Viking Wire Co., Inc. (enameled magnet)	Danbury	
United States Time Corporation The	Waterbury			
Washers—Precision		Wire and Cable		Wire Rings
Laminated Shim Company Inc	Glenbrook	Continental Wire Corp (for industrial and military applications)	Wallingford	American Buckle Co The (pan handles and tinniers' trimmings)
		General Electric Company (for residential, commercial and industrial applications)		West Haven
Water Deionizers		Rockbestos Wire & Cable Co Div Cerro de Pasco Corp (all asbestos, mining, shipboard and appliance applications)	New Haven	Stanley Humason Inc
Penfield Mfg Co	Meriden	(Advt.)		Forestville
Water Heaters				Peek Spring Co
Whitlock Manufacturing Co The	Hartford	Hartford Wire Works Co The	Hartford	Plainville
(instantaneous & storage)				Templeman Co D R
Water Heaters—Electric		Wire Arches & Trellises		
Bauer & Company Inc	Hartford	Rolek Inc	Fairfield	
		Wiretex Mfg Inc (Industrial, for acid, heat, treating and degreasing)	Bridgeport	
Waxes				
Fuller Brush Co. The (liquid and paste for floor and furniture)	East Hartford	Wire Cloth		
Harrison Company The A S (and other protective coatings)	South Norwalk	Hartford Wire Works Co The	Hartford	C H Dresser & Sons Inc (Mfg all kinds of woodwork)
		C O Jeliff Mfg Co The (all metal, all meshes)	Southport	Hartford Builders Finish Co
Webbing		McCluskey Wire Co., Inc. (Fourdrinier)		
Russell Mfg Co (Webbing for Safety Seat Belts—all types of webbing)	Middletown	New Haven		
		Pequot Wire Cloth Co., Inc. (industrial grades only)	Norwalk	
Welded Products		Rolek Inc (alloy)	Fairfield	
Acme Welding Div United Tool & Die Co	West Hartford	Smith Co The John P	New Haven	
Welding		Wire Dipping Baskets		Zinc
Aircraft Welding & Mfg Co Inc (aluminum, stainless steel, magnesium)	Hartford	Hartford Wire Works Co The	Hartford	Platt Bros & Co The (ribbon, strip and wire)
Ansonia Steel Fabrication Co., Inc. (steel, stainless steel and aluminum fabrication)	Ansonia	John P Smith Co The	New Haven	Waterbury
Connecticut Welders Inc (fabrication & repairs)	Wallingford			
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators)	Hartford	Wire Forming Machinery		
Storts Welding Co Inc (tanks and fabrication)	Meriden	Nilson Machine Company The A H Shelton		
		Torrington Manufacturing Company The		
Tag Alloy Welding & Mfg Co Inc (nuclear, missile and aircraft type)	Glastonbury	Torrington		
		Wire Formings		Zinc Die Castings
		Master Engineering Company West Cheshire		Mt Vernon Die Casting Corporation
		North & Judd Manufacturing Co New Britain		Stamford
		Oakville Co. Div. Scovill Mfg. Co.		Stratford
		Peek Spring Co		Stewart Die Casting Div
		Plainville		Stewart-Warner Corp
		Turner & Seymour Manufacturing Co The		Bridgeport



The Micrometer—Symbol of Precision

(Continued from page 9)

bine. They needed a 21 inch micrometer to measure wear on a shaft. They contacted the largest manufacturers but the item was not available. Finally, they called Slocomb. That same evening Mr. Niles Brook personally delivered the micrometer to HELCO manager's home located about a mile "down the road" from the Slocomb plant.

In Connecticut and throughout the country the metal working and related industries are expanding. Space technology, atomic energy and the burgeoning field of electronics are paving the way to a technical revolution. The emphasis is on precision. "There will be a continuing demand for micrometers; larger micrometers will be needed. We visualize a fairly rapid approach to operations five to ten times our present volume," states Harley J. Brook, treasurer, and A. William Gilwech, secretary of the Slocomb Company.

Soon an attempt will be made to reach the moon. And the crescent-shaped "mike" so similar in appearance to the moon of lore and fancy will play a vital part in the launching toward that fabled satellite. When the moon is reached, one hand may well be grasping a micrometer.

FLINT Certified LADDERS & STAGING

Ladremakers' Laboratories, Inc.
INSPECTED

For your plant, the Flint Patent Ladder is the finest extension ladder on the market today.

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"Ladder Specialists Since 1880"

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Spotlight on the Future

(Continued from page 47)

continue to shorten their forward commitments.

Employment

Last month's employment situation appeared rather depressing. Optimism was expressed for some improvement later on in the year. Some encouragement was hoped for this month and actually the number reporting lower employment did drop to 21% from April's 26%. On the other hand, only 11% report higher employment than April, as against 13% reporting higher employment last month; 68% report no change.

Buying Policy

A summarization of buying policy as of today looks something like this:

- On most production items: 30-60 days.
- On MRO supplies: Hand-to-mouth—30 days.
- On capital goods items: 90 days—1 year.

The trend is definitely toward shortening and most Purchasing Executives are keeping forward commitments on as current a need/use basis as possible.



WHY A. H. WELLS HAS TODAY "THE INDUSTRY'S BEST LIGHTED TUBE MILL"



It started because the Company needed a way to increase production. Working hours in the tube redrawing mill, located in Waterbury, were confined to the daytime before the new lighting was installed. Engineers of The Miller Company, Meriden, which recently acquired A. H. Wells, Incorporated, measured the maximum light in the shop at about five foot-candles—even on the brightest day.

Just study again for a moment the contrast shown in the before and after photos above, both

25% upright, the mill has 100 footcandles of evenly distributed light, making it possible to run a second shift, when necessary, and improving working conditions in the daytime, as well. The new lighting more than meets the minimum standards recommended by the Illuminating Engineering Society for the type of work performed.

How do they like the new lighting? Mr. Donald Gately, Staff Manufacturing Engineer of The Miller Company, thinks it's "The industry's best lighted tube mill". But the enthusiasm and pride expressed by the workers in the shop make them its biggest boosters. A lighting system properly designed to the new IES standards can help your production and employee relations, too. Let a Representative from your electric utility show you how with a See-Level Comparator demonstration. Call now to arrange an appointment at your convenience.

THE CONNECTICUT LIGHT AND POWER COMPANY
THE Housatonic PUBLIC SERVICE COMPANY

THE HARTFORD ELECTRIC LIGHT COMPANY
THE UNITED ILLUMINATING COMPANY



*In Connecticut and
parts of Massachusetts
and Rhode Island...*

the Highway of
**ECONOMY, DEPENDABILITY
SATISFACTION**

is



BUNKER "C,"

Two major storage depots, strategically located in Wethersfield and Groton, Connecticut, combined with a tremendous fleet of modern all-weather trucks, serves all of Connecticut, parts of Massachusetts and Rhode Island with dependable, quality Bunker "C" Fuel. Balco Bunker "C" is clean, meets every requirement of heating efficiency, delivers more BTU's, more pure heat per gallon than conventional fuels—and at far less cost! Call JACKSON 9-3391 or write P.O. Box 1078, Hartford.

MORE commercial users of BUNKER "C" have been and
are MORE SATISFIED with BALLARD OIL SERVICE!

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HARTFORD, CONNECTICUT



